WE CLAIM:

1. A compound of Formula I:

 X^2 X^7 X^7 X^7

in which:

 X^1 is -NHC(R^1)(R^2) X^3 or -NHX⁴;

 X^2 is hydrogen, fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X^7 is hydrogen or X^2 and X^7 both represent fluoro;

X³ is cyano, -C(R³)(R8)R¹6, -C(R6)(OR6)2, -CH2C(O)R¹6, -CH=CHS(O)2R⁵,
-C(O)CF2C(O)NR⁵R⁵, -C(O)C(O)NR⁵R6, -C(O)C(O)OR⁵, -C(O)CH2OR⁵,
-C(O)CH2N(R6)SO2R⁵ or -C(O)C(O)R⁵; wherein R⁵ is hydrogen, (C14)alkyl,
(C3-10)cycloalkyl(C0-6)alkyl, hetero(C3-10)cycloalkyl(C0-3)alkyl, (C6-10)aryl(C0-6)alkyl,
hetero(C5-10)aryl(C0-6)alkyl, (C9-10)bicycloaryl(C0-6)alkyl or
hetero(C8-10)bicycloaryl(C0-6)alkyl; R⁶ is hydrogen, hydroxy or (C1-6)alkyl; or where X³
contains an -NR⁵R⁶ group, R⁵ and R⁶ together with the nitrogen atom to which they are both
attached, form hetero(C3-10)cycloalkyl, hetero(C5-10)aryl or hetero(C8-10)bicycloaryl; R³ is
hydrogen or (C1-4)alkyl and R³ is hydroxy or R³ and R³ together form oxo; R¹⁶ is hydrogen, X⁴, -CF3, -CF2CF2R⁰ or -N(R⁶)OR⁶; R⁰ is hydrogen, halo, (C1-4)alkyl, (C5-10)aryl(C0-6)alkyl or
(C5-10)heteroaryl(C0-6)alkyl, with the proviso that when X³ is cyano, then X² is hydrogen,
fluoro, -OH, -OR⁴ or -NR¹¹R¹³ and X³ is hydrogen or X² and X² both represent fluoro;

X⁴ comprises a heteromonocyclic ring containing 4 to 7 ring member atoms or a fused heterobicyclic ring system containing 8 to 14 ring member atoms and any carbocyclic ketone, iminoketone or thioketone derivative thereof, with the proviso that when -X⁴ is other than a heteromonocyclic ring containing 5 ring member atoms, wherein no more than two of the ring member atoms comprising the ring are heteroatoms, then X² is fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X⁷ is hydrogen or X² and X⁷ both represent fluoro;

wherein within R⁵, X³ or X⁴ any alicyclic or aromatic ring system is unsubstituted or

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substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5R^{12}C(O)R^{12}$, $-X^5R^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$

R¹ is hydrogen or (C₁₋₅)alkyl and R² is selected from a group consisting of hydrogen, cyano, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)OR^{12}$, $-R^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, 15 $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12}, -X^5C(O)OR^{12}, -X^5C(O)R^{12}, -X^5OC(O)R^{12}, -X^5OC(O)R^$ $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$, $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^{5}S(O)R^{14}$, $-X^{5}S(O)_{2}R^{14}$, $-X^{5}C(O)R^{14}$, $-X^{5}C(O)OR^{14}$, $-X^{5}OC(O)R^{14}$, $-X^{5}NR^{14}R^{12}$, $-X^5NR^{12}C(O)R^{14}$, $-X^5NR^{12}C(O)OR^{14}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{14}R^{12}$, $-X^5NR^{12}S(O)_2R^{14}$, 20 $-X^5NR^{12}C(O)NR^{14}R^{12}$ and $-X^5NR^{12}C(NR^{12})NR^{14}R^{12}$, wherein X^5 , R^{12} , R^{13} and R^{14} are as defined above; or R1 and R2 taken together with the carbon atom to which both R1 and R2 are attached form (C_{3-8}) cycloalkylene or (C_{3-8}) heterocycloalkylene; wherein within said R^2 any heteroaryl, aryl, cycloalkyl, heterocycloalkyl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with 1 to 3 radicals independently selected from (C₁₋₆)alkyl, 25 (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², $-X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12}, -X^5NR^{12}R^{12}, -X^5NR^{12}, -X^5NR^{12}R^{12}, -X^5NR^{12}, -X^5NR^{12}, -X^5NR^{$ $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)R^{12}, -X^5NR^{12}C(O)R^{12}, -X$ $-X^5S(O)_2R^{13}$ and $-X^5C(O)R^{13}$, wherein X^5 , R^{12} and R^{13} are as defined above; 30

 R^3 is (C_{1-6}) alkyl or $-C(R^6)(R^6)X^6$, wherein R^6 is hydrogen or (C_{1-6}) alkyl and X^6 is selected from $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)OR^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$,

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 $-X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{12}R^{12}, -X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, \\ -X^5OP(O)(OR^{12})OR^{12}, -X^5C(O)R^{13}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)_2R^{13}, -R^{14}, \\ -X^5OR^{14}, -X^5SR^{14}, -X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, \\ -X^5NR^{14}R^{12}, -X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, -X^5S(O)_2NR^{14}R^{12}, \\ -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^5NR^{12}C(NR^{12})NR^{14}R^{12} \text{ wherein } X^5, R^{12}, R^{13} \\ \text{and } R^{14} \text{ are as defined above;}$

 $R^4 \text{ is selected from } -X^8NR^{12}R^{12}, -X^8NR^{12}C(O)R^{12}, -X^8NR^{12}C(O)OR^{12}, \\ -X^8NR^{12}C(O)NR^{12}R^{12}, -X^8NR^{12}C(NR^{12})NR^{12}R^{12}, -X^8OR^{12}, -X^8SR^{12}, -X^5C(O)OR^{12}, \\ -X^5C(O)R^{12}, -X^8OC(O)R^{12}, -X^5C(O)NR^{12}R^{12}, -X^8S(O)_2NR^{12}R^{12}, -X^8NR^{12}S(O)_2R^{12}, \\ -X^8P(O)(OR^{12})OR^{12}, -X^8OP(O)(OR^{12})OR^{12}, -X^5C(O)R^{13}, -X^8NR^{12}C(O)R^{13}, -X^8S(O)_2R^{13}, \\ -X^8S(O)_2R^{13}, -R^{14}, -X^8OR^{14}, -X^8SR^{14}, -X^8S(O)R^{14}, -X^8S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, \\ -X^8OC(O)R^{14}, -X^8NR^{12}R^{12}, -X^8NR^{12}C(O)R^{14}, -X^8NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, \\ -X^8S(O)_2NR^{14}R^{12}, -X^8NR^{12}S(O)_2R^{14}, -X^8NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^8NR^{12}C(NR^{12})NR^{14}R^{12} \\ \text{wherein } X^8 \text{ is } (C_{1-6})\text{alkylene and } X^5, R^{12}, R^{13} \text{ and } R^{14} \text{ are as defined above, with the proviso that when } X^3 \text{ is cyano and } X^2 \text{ is } -OR^4, \text{ where } R^4 \text{ is defined as } -R^{14}, \text{ then } R^{14} \text{ is } \\ (C_{3-10})\text{cycloalkyl}(C_{1-6})\text{alkyl}, \text{ hetero}(C_{3-10})\text{cycloalkyl}(C_{1-3})\text{alkyl}, (C_{6-10})\text{aryl}(C_{1-6})\text{alkyl}, \\ \text{hetero}(C_{8-10})\text{bicycloaryl}(C_{1-6})\text{alkyl}; \\ \end{cases}$

 R^{15} is (C_{6-10}) aryl, hetero (C_{5-10}) aryl, (C_{9-10}) bicycloaryl or hetero (C_{8-10}) bicycloaryl; R^{17} is (C_{1-6}) alkyl, (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{0-3}) alkyl, (C_{6-10}) aryl (C_{0-6}) alkyl, hetero (C_{5-10}) aryl (C_{0-6}) alkyl, (C_{9-10}) bicycloaryl (C_{0-6}) alkyl or hetero (C_{8-10}) bicycloaryl (C_{0-6}) alkyl, with the proviso that when X^3 is cyano, then R^{17} is (C_{1-6}) alkyl, (C_{3-10}) cycloalkyl (C_{1-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{1-6}) alkyl, (C_{6-10}) aryl (C_{1-6}) alkyl, hetero (C_{5-10}) aryl (C_{1-6}) alkyl, (C_{9-10}) bicycloaryl (C_{1-6}) alkyl or hetero (C_{8-10}) bicycloaryl (C_{1-6}) alkyl;

 R^{18} is hydrogen, (C_{1-6}) alkyl, (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, (C_{6-10}) aryl (C_{0-6}) alkyl, hetero (C_{5-10}) aryl (C_{0-6}) alkyl, (C_{9-10}) bicycloaryl (C_{0-6}) alkyl or hetero (C_{8-10}) bicycloaryl (C_{0-6}) alkyl, with the proviso that when X^3 is cyano, then R^{18} is (C_{1-6}) alkyl, (C_{3-10}) cycloalkyl (C_{1-6}) alkyl,

hetero(C_{3-10})cycloalkyl(C_{1-6})alkyl, (C_{6-10})aryl(C_{1-6})alkyl, hetero(C_{5-10})aryl(C_{1-6})alkyl, (C_{9-10})bicycloaryl(C_{1-6})alkyl or hetero(C_{8-10})bicycloaryl(C_{1-6})alkyl; and

wherein within R^3 , R^4 , R^{15} , R^{17} and R^{18} any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl,

(C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², $-X^5NR^{12}C(O)OR^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)R^{12}, -X^5NR^{12}C(O)R^{12}, -X$ $-X^5C(O)R^{13}$ and $-X^5S(O)_2R^{13}$ and/or 1 radical selected from $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, 5 $-X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12}, -X^5NR^{14}R^{14}, -X^$ $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}S(O)_2R^{14},$ -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹²; and within R³ and R⁴ any aliphatic moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cyano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)OR¹², -NR¹²C(O)NR¹²R¹², 10 $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)R^{12}$, $-OC(O)R^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}, -NR^{12}S(O)_2R^{12}, -P(O)(OR^{12})OR^{12}, -OP(O)(OR^{12})OR^{12}, -NR^{12}C(O)R^{13}, -NR^{12}C(O)R^{12}, -NR^{12}C(O)R$ -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above, with the proviso that when X³ is cyano and X² is -OR⁴, where R⁴ is defined as -R¹⁴, or -NHR¹⁸, then any aromatic ring system present within R¹⁴ or R¹⁸ is not substituted further by halo, 15 (C_{3-10}) cycloalkyl, hetero (C_{3-10}) cycloalkyl, (C_{6-10}) aryl, hetero (C_{5-10}) aryl, (C_{9-10}) bicycloaryl or hetero(C₈₋₁₀)bicycloaryl; with the proviso that only one bicyclic ring structure is present within R³, R⁴ or R¹⁵; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected 20 derivatives, individual isomers and mixtures of isomers thereof.

2. A compound of Claim 1, which is of the following formula:

$$X^2$$
 X^1

in which X^2 is hydrogen, fluoro, -OH, -OR⁴, -NHR¹⁵; R^3 , R^4 , R^{15} and X^1 are the same as defined in claim 1.

3. A compound of Claim 1 or Claim 2 in which:

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 X^{1} is -NHC(R^{1})(R^{2}) X^{3} or -NHCH(R^{19})C(O) R^{20} ;

 X^2 is hydrogen, fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X^7 is hydrogen or X^2 and X^7 both represent fluoro;

X³ is cyano, -C(R³)(R8)R¹6, -C(R6)(OR6)2, -CH2C(O)R¹6, -CH=CHS(O)2R⁵,
-C(O)CF2C(O)NR⁵R⁵, -C(O)C(O)NR⁵R6, -C(O)C(O)OR⁵, -C(O)CH2OR⁵,
-C(O)CH2N(R6)SO2R⁵ or -C(O)C(O)R⁵; wherein R⁵ is hydrogen, (C₁4)alkyl,
(C₃-10)cycloalkyl(C₀-6)alkyl, hetero(C₃-10)cycloalkyl(C₀-3)alkyl, (C₆-10)aryl(C₀-6)alkyl,
hetero(C₅-10)aryl(C₀-6)alkyl, (Cҙ-10)bicycloaryl(C₀-6)alkyl or
hetero(Cଃ-10)bicycloaryl(C₀-6)alkyl; R⁶ is hydrogen, hydroxy or (C₁-6)alkyl; or where X³
contains an -NR⁵R⁶ group, R⁵ and R⁶ together with the nitrogen atom to which they are both
attached, form hetero(C₃-10)cycloalkyl, hetero(C₅-10)aryl or hetero(Cଃ-10)bicycloaryl; R³ is
hydrogen or (C₁-4)alkyl and R³ is hydroxy or R³ and R³ together form oxo; R¹⁶ is hydrogen, X⁴, -CF₃, -CF₂CF₂R⁰ or -N(R⁶)OR⁶; R⁰ is hydrogen, halo, (C₁-4)alkyl, (C₅-10)aryl(C₀-6)alkyl or
(C₅-10)heteroaryl(C₀-6)alkyl, with the proviso that when X³ is cyano, then X² is hydrogen,
fluoro, -OH, -OR⁴ or -NR¹⊓R¹³ and X³ is hydrogen or X² and Xⁿ both represent fluoro;

X⁴ comprises a heteromonocyclic ring containing 4 to 7 ring member atoms or a fused heterobicyclic ring system containing 8 to 14 ring member atoms and any carbocyclic ketone, iminoketone or thioketone derivative thereof, with the proviso that when -X⁴ is other than a heteromonocyclic ring containing 5 ring member atoms, wherein no more than two of the ring member atoms comprising the ring are heteroatoms, then X² is fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X⁷ is hydrogen or X² and X⁷ both represent fluoro;

wherein within R⁵, X³ or X⁴ any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹²,

-X⁵NR¹²C(O)OR¹², -X⁵NR¹²C(O)NR¹²R¹², -X⁵NR¹²C(NR¹²)NR¹²R¹², -X⁵OR¹², -X⁵SR¹²,

-X⁵C(O)OR¹², -X⁵C(O)R¹², -X⁵OC(O)R¹², -X⁵C(O)NR¹²R¹², -X⁵S(O)₂NR¹²R¹²,

-X⁵NR¹²S(O)₂R¹², -X⁵P(O)(OR¹²)OR¹², -X⁵OP(O)(OR¹²)OR¹², -X⁵NR¹²C(O)R¹³, -X⁵S(O)R¹³

and -X⁵S(O)₂R¹³ and/or 1 radical selected from -R¹⁴, -X⁵OR¹⁴, -X⁵SR¹⁴, -X⁵S(O)R¹⁴,

-X⁵S(O)₂R¹⁴, -X⁵C(O)R¹⁴, -X⁵C(O)OR¹⁴, -X⁵OC(O)R¹⁴, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹⁴,

-X⁵NR¹²C(O)OR¹⁴, -X⁵C(O)NR¹²R¹², -X⁵S(O)₂NR¹⁴R¹², -X⁵NR¹²S(O)₂R¹⁴,

-X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹², wherein X⁵ is a bond or (C₁₋₆)alkylene;

R¹² at each occurrence independently is hydrogen, (C₁₋₆)alkyl or halo-substituted(C₁₋₆)alkyl,

R¹³ is (C₁₋₆)alkyl or halo-substituted(C₁₋₆)alkyl; and R¹⁴ is (C₃₋₁₀)cycloalkyl(C₀₋₆)alkyl,

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hetero(C_{3-10})cycloalkyl(C_{0-3})alkyl, (C_{6-10})aryl(C_{0-6})alkyl, hetero(C_{5-10})aryl(C_{0-6})alkyl, (C_{9-10})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-10})bicycloaryl(C_{0-6})alkyl;

R¹ is hydrogen or (C₁₋₆)alkyl and R² is selected from a group consisting of hydrogen, cyano, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)OR^{12}$, $-R^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$, $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^{5}S(O)R^{14}$, $-X^{5}S(O)_{2}R^{14}$, $-X^{5}C(O)R^{14}$, $-X^{5}C(O)OR^{14}$, $-X^{5}OC(O)R^{14}$, $-X^{5}NR^{14}R^{12}$, $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}R^{12}, -X^5N$ -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹², wherein X⁵, R¹², R¹³ and R¹⁴ are as defined above; or R¹ and R² taken together with the carbon atom to which both R¹ and R² are attached form (C₃₋₈)cycloalkylene or (C₃₋₈)heterocycloalkylene; wherein within said R² any heteroaryl, aryl, cycloalkyl, heterocycloalkyl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with 1 to 3 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², $-X^5NR^{12}C(O)OR^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$ and $-X^5C(O)R^{13}$, wherein X^5 , R^{12} and R^{13} are as defined above;

 $R^3 \text{ is } (C_{1-6}) \text{alkyl or } -C(R^6)(R^6)X^6, \text{ wherein } R^6 \text{ is hydrogen or } (C_{1-6}) \text{alkyl and } X^6 \text{ is selected from } -X^5NR^{12}R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}R^{12}, -X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{14}, -X^$

R⁴ is selected from -X⁸NR¹²R¹², -X⁸NR¹²C(O)R¹², -X⁸NR¹²C(O)OR¹²,

-X⁸NR¹²C(O)NR¹²R¹², -X⁸NR¹²C(NR¹²)NR¹²R¹², -X⁸OR¹², -X⁸SR¹², -X⁵C(O)OR¹²,

-X⁵C(O)R¹², -X⁸OC(O)R¹², -X⁵C(O)NR¹²R¹², -X⁸S(O)₂NR¹²R¹², -X⁸NR¹²S(O)₂R¹²,

-X⁸P(O)(OR¹²)OR¹², -X⁸OP(O)(OR¹²)OR¹², -X⁵C(O)R¹³, -X⁸NR¹²C(O)R¹³, -X⁸S(O)₂R¹³, -X⁸S(O)₂R¹³, -X⁸S(O)₂R¹⁴, -X⁵C(O)R¹⁴, -X⁵C(O)OR¹⁴,

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 $-X^8 OC(O) R^{14}, -X^8 NR^{14} R^{12}, -X^8 NR^{12} C(O) R^{14}, -X^8 NR^{12} C(O) OR^{14}, -X^5 C(O) NR^{14} R^{12}, \\ -X^8 S(O)_2 NR^{14} R^{12}, -X^8 NR^{12} S(O)_2 R^{14}, -X^8 NR^{12} C(O) NR^{14} R^{12} \text{ and } -X^8 NR^{12} C(NR^{12}) NR^{14} R^{12} \\ \text{wherein } X^8 \text{ is } (C_{1-6}) \text{alkylene and } X^5, R^{12}, R^{13} \text{ and } R^{14} \text{ are as defined above, with the proviso that when } X^3 \text{ is cyano and } X^2 \text{ is } -OR^4, \text{ where } R^4 \text{ is defined as } -R^{14}, \text{ then } R^{14} \text{ is } \\ (C_{3-10}) \text{cycloalkyl}(C_{1-6}) \text{alkyl}, \text{ hetero}(C_{3-10}) \text{cycloalkyl}(C_{1-3}) \text{alkyl}, (C_{6-10}) \text{aryl}(C_{1-6}) \text{alkyl}, \\ \text{hetero}(C_{5-10}) \text{aryl}(C_{1-6}) \text{alkyl}, (C_{9-10}) \text{bicycloaryl}(C_{1-6}) \text{alkyl} \text{ or } \\ \text{hetero}(C_{8-10}) \text{bicycloaryl}(C_{1-6}) \text{alkyl}; \\ \end{cases}$

 $R^{15} \ is \ (C_{6\text{-}10}) aryl, \ hetero(C_{5\text{-}10}) aryl, \ (C_{9\text{-}10}) bicycloaryl \ or \ hetero(C_{8\text{-}10}) bicycloaryl; \\ R^{17} \ is \ (C_{1\text{-}6}) alkyl, \ (C_{3\text{-}10}) cycloalkyl(C_{0\text{-}6}) alkyl, \ hetero(C_{3\text{-}10}) cycloalkyl(C_{0\text{-}3}) alkyl, \\ (C_{6\text{-}10}) aryl(C_{0\text{-}6}) alkyl, \ hetero(C_{5\text{-}10}) aryl(C_{0\text{-}6}) alkyl, \ (C_{9\text{-}10}) bicycloaryl(C_{0\text{-}6}) alkyl \ or \\ hetero(C_{8\text{-}10}) bicycloaryl(C_{0\text{-}6}) alkyl, \ with \ the \ proviso \ that \ when \ X^3 \ is \ cyano, \ then \ R^{17} \ is \\ (C_{1\text{-}6}) alkyl, \ (C_{3\text{-}10}) cycloalkyl(C_{1\text{-}6}) alkyl, \ hetero(C_{3\text{-}10}) cycloalkyl(C_{1\text{-}6}) alkyl, \\ (C_{6\text{-}10}) aryl(C_{1\text{-}6}) alkyl, \ hetero(C_{5\text{-}10}) aryl(C_{1\text{-}6}) alkyl, \ (C_{9\text{-}10}) bicycloaryl(C_{1\text{-}6}) alkyl \ or \\ hetero(C_{8\text{-}10}) bicycloaryl(C_{1\text{-}6}) alkyl;$

 $R^{18} \text{ is hydrogen, } (C_{1\text{-}6}) \text{alkyl, } (C_{3\text{-}10}) \text{cycloalkyl}(C_{0\text{-}6}) \text{alkyl, } \\ \text{hetero}(C_{3\text{-}10}) \text{cycloalkyl}(C_{0\text{-}6}) \text{alkyl, } (C_{6\text{-}10}) \text{aryl}(C_{0\text{-}6}) \text{alkyl, hetero}(C_{5\text{-}10}) \text{aryl}(C_{0\text{-}6}) \text{alkyl, } \\ (C_{9\text{-}10}) \text{bicycloaryl}(C_{0\text{-}6}) \text{alkyl or hetero}(C_{8\text{-}10}) \text{bicycloaryl}(C_{0\text{-}6}) \text{alkyl, with the proviso that when } \\ X^3 \text{ is cyano, then } R^{18} \text{ is } (C_{1\text{-}6}) \text{alkyl, } (C_{3\text{-}10}) \text{cycloalkyl}(C_{1\text{-}6}) \text{alkyl, } \\ \text{hetero}(C_{3\text{-}10}) \text{cycloalkyl}(C_{1\text{-}6}) \text{alkyl, } (C_{6\text{-}10}) \text{aryl}(C_{1\text{-}6}) \text{alkyl, hetero}(C_{5\text{-}10}) \text{aryl}(C_{1\text{-}6}) \text{alkyl, } \\ (C_{9\text{-}10}) \text{bicycloaryl}(C_{1\text{-}6}) \text{alkyl or hetero}(C_{8\text{-}10}) \text{bicycloaryl}(C_{1\text{-}6}) \text{alkyl; and } \\ \\ \\$

 R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C_{4-8}) heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -NR²¹- or -O-, wherein the ring is unsubstituted or substituted with R^2 , wherein R^2 is as defined above, and R^{21} is hydrogen, -C(O)OR¹², -C(O)R¹², -C(O)NR¹²R¹², -S(O)₂NR¹²R¹², -S(O)R¹³ and -S(O)₂R¹³, -S(O)R¹⁴, -S(O)₂R¹⁴, -C(O)OR¹⁴, -C(O)OR¹⁴, -C(O)NR¹²R¹² and -S(O)₂NR¹⁴R¹², wherein R^{12} , R^{13} and R^{14} are as defined above;

wherein within R^3 , R^4 , R^{15} , R^{17} and R^{18} any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$

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-X⁵C(O)R¹³ and -X⁵S(O)₂R¹³ and/or 1 radical selected from -R¹⁴, -X⁵OR¹⁴, -X⁵SR¹⁴, $-X^{5}S(O)R^{14}$, $-X^{5}S(O)_{2}R^{14}$, $-X^{5}C(O)R^{14}$, $-X^{5}C(O)OR^{14}$, $-X^{5}OC(O)R^{14}$, $-X^{5}NR^{14}R^{12}$, $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}S(O)_2R^{14},$ -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹²; and within R³ and R⁴ any aliphatic moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cvano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)OR¹², -NR¹²C(O)NR¹²R¹², $-NR^{12}C(NR^{12})NR^{12}R^{12}, -OR^{12}, -SR^{12}, -C(O)OR^{12}, -C(O)R^{12}, -OC(O)R^{12}, -C(O)NR^{12}R^{12}, -OC(O)R^{12}, -OC(O)R^{12}$ $-S(O)_2NR^{12}R^{12}, -NR^{12}S(O)_2R^{12}, -P(O)(OR^{12})OR^{12}, -OP(O)(OR^{12})OR^{12}, -NR^{12}C(O)R^{13}, -NR^{12}C(O)R^{12}, -NR^{12}C(O)R$ -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above, with the proviso that when X³ is cyano and X² is -OR⁴, where R⁴ is defined as -R¹⁴, or -NHR¹⁸, then any aromatic ring system present within R¹⁴ or R¹⁸ is not substituted further by halo, (C_{3-10}) cycloalkyl, hetero (C_{3-10}) cycloalkyl, (C_{6-10}) aryl, hetero (C_{5-10}) aryl, (C_{9-10}) bicycloaryl or hetero(C₈₋₁₀)bicycloaryl; with the proviso that only one bicyclic ring structure is present within R³, R⁴ or R¹⁵; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

4. The compound of Claim 1 or Claim 2 in which:

 X^{1} is -NHC(R^{1})(R^{2}) X^{3} or -NHCH(R^{19})C(O) R^{20} ;

 X^2 is hydrogen, fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X^7 is hydrogen or X^2 and X^7 both represent fluoro;

 X^3 is $-C(R^7)(R^8)R^{16}$, $-C(R^6)(OR^6)_2$, $-CH_2C(O)R^{16}$, $-CH=CHS(O)_2R^5$, $-C(O)CF_2C(O)NR^5R^5$, $-C(O)C(O)NR^5R^6$, $-C(O)C(O)OR^5$, $-C(O)CH_2OR^5$, $-C(O)CH_2N(R^6)SO_2R^5$ or $-C(O)C(O)R^5$; wherein R^5 is hydrogen, (C_{1-4}) alkyl, (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{0-3}) alkyl, (C_{6-10}) aryl (C_{0-6}) alkyl, hetero (C_{5-10}) aryl (C_{0-6}) alkyl, (C_{9-10}) bicycloaryl (C_{0-6}) alkyl; (C_{9-10}) bicycloaryl (C_{0-6}) alkyl; or where X^3 contains an $-NR^5R^6$ group, R^5 and R^6 together with the nitrogen atom to which they are both attached, form hetero (C_{3-10}) cycloalkyl, hetero (C_{5-10}) aryl or hetero (C_{8-10}) bicycloaryl; R^7 is hydrogen or (C_{1-4}) alkyl and R^8 is hydroxy or R^7 and R^8 together form oxo; R^{16} is hydrogen, $-X^4$, $-CF_3$, $-CF_2CF_2R^9$ or $-N(R^6)OR^6$; R^9 is hydrogen, halo, (C_{1-4}) alkyl, (C_{5-10}) aryl (C_{0-6}) alkyl or (C_{5-10}) heteroaryl (C_{0-6}) alkyl;

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 X^4 comprises a heteromonocyclic ring containing 4 to 7 ring member atoms or a fused heterobicyclic ring system containing 8 to 14 ring member atoms and any carbocyclic ketone, iminoketone or thioketone derivative thereof, with the proviso that when $-X^4$ is other than a heteromonocyclic ring containing 5 ring member atoms, wherein no more than two of the ring member atoms comprising the ring are heteroatoms, then X^2 is fluoro, -OH, -OR⁴, -NHR¹⁵ or -NR¹⁷R¹⁸ and X^7 is hydrogen or X^2 and X^7 both represent fluoro;

wherein within R^5 , X^3 or X^4 any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5R^{12}C(O)R^{12}$, $-X^5R^{12}C(O)$

R¹ is hydrogen or (C₁₋₆)alkyl and R² is selected from a group consisting of hydrogen, cyano, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², -X⁵NR¹²C(O)R¹², -X⁵NR¹²C(O)NR¹²R¹², -X⁵NR¹²C(O)NR¹²R¹², -X⁵OC(O)R¹², -X⁵C(O)R¹², -X⁵OC(O)R¹², -X⁵OC(O)R¹², -X⁵C(O)NR¹²R¹², -X⁵S(O)₂NR¹²R¹², -X⁵NR¹²S(O)₂R¹², -X⁵P(O)(OR¹²)OR¹², -X⁵OP(O)(OR¹²)OR¹², -X⁵NR¹²C(O)R¹³, -X⁵S(O)R¹³, -X⁵S(O)₂R¹³, -R¹⁴, -X⁵OR¹⁴, -X⁵SR¹⁴, -X⁵S(O)R¹⁴, -X⁵S(O)R¹⁴, -X⁵S(O)R¹⁴, -X⁵S(O)R¹⁴, -X⁵S(O)R¹⁴, -X⁵NR¹⁴R¹², -X⁵NR¹²C(O)R¹⁴, -X⁵C(O)OR¹⁴, -X⁵C(O)NR¹²R¹², -X⁵S(O)₂NR¹⁴R¹², -X⁵NR¹²S(O)₂R¹⁴, -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹², wherein X⁵, R¹², R¹³ and R¹⁴ are as defined above; or R¹ and R² taken together with the carbon atom to which both R¹ and R² are attached form (C₃₋₈)cycloalkylene or (C₃₋₈)heterocycloalkylene; wherein within said R² any heteroaryl, aryl, cycloalkyl, heterocycloalkyl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with 1 to 3 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹²,

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 $-X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12}, \\ -X^5C(O)OR^{12}, -X^5C(O)R^{12}, -X^5OC(O)R^{12}, -X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{12}R^{12}, \\ -X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)_2R^{13}, \\ -X^5S(O)_2R^{13} \text{ and } -X^5C(O)R^{13}, \text{ wherein } X^5, R^{12} \text{ and } R^{13} \text{ are as defined above;}$

 $R^{3} \text{ is } (C_{1-6}) \text{alkyl or } -C(R^{6})(R^{6})X^{6}, \text{ wherein } R^{6} \text{ is hydrogen or } (C_{1-6}) \text{alkyl and } X^{6} \text{ is selected from } -X^{5}NR^{12}R^{12}, -X^{5}NR^{12}C(O)R^{12}, -X^{5}NR^{12}C(O)OR^{12}, -X^{5}NR^{12}C(O)NR^{12}R^{12}, -X^{5}NR^{12}C(O)R^{12}, -X^{5}NR^{12}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}R^{12}, -X^{5}NR^{12}S(O)_{2}R^{12}, -X^{5}P(O)(OR^{12})OR^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{13}, -X^{5}C(O)R^{14}, -X$

 $R^{4} \text{ is selected from } -X^{8}NR^{12}R^{12}, -X^{8}NR^{12}C(O)R^{12}, -X^{8}NR^{12}C(O)OR^{12},$ $-X^{8}NR^{12}C(O)NR^{12}R^{12}, -X^{8}NR^{12}C(NR^{12})NR^{12}R^{12}, -X^{8}OR^{12}, -X^{8}SR^{12}, -X^{5}C(O)OR^{12},$ $-X^{5}C(O)R^{12}, -X^{8}OC(O)R^{12}, -X^{5}C(O)NR^{12}R^{12}, -X^{8}S(O)_{2}NR^{12}R^{12}, -X^{8}NR^{12}S(O)_{2}R^{12},$ $-X^{8}P(O)(OR^{12})OR^{12}, -X^{8}OP(O)(OR^{12})OR^{12}, -X^{5}C(O)R^{13}, -X^{8}NR^{12}C(O)R^{13}, -X^{8}S(O)R^{13},$ $-X^{8}S(O)_{2}R^{13}, -R^{14}, -X^{8}OR^{14}, -X^{8}SR^{14}, -X^{8}S(O)R^{14}, -X^{8}S(O)_{2}R^{14}, -X^{5}C(O)R^{14}, -X^{5}C(O)OR^{14},$ $-X^{8}OC(O)R^{14}, -X^{8}NR^{14}R^{12}, -X^{8}NR^{12}C(O)R^{14}, -X^{8}NR^{12}C(O)OR^{14}, -X^{5}C(O)NR^{14}R^{12},$ $-X^{8}S(O)_{2}NR^{14}R^{12}, -X^{8}NR^{12}S(O)_{2}R^{14}, -X^{8}NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^{8}NR^{12}C(NR^{12})NR^{14}R^{12}$ $-X^{8}S(O)_{2}NR^{14}R^{12}, -X^{8}NR^{12}S(O)_{2}R^{14}, -X^{8}NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^{8}NR^{12}C(NR^{12})NR^{14}R^{12}$ $+X^{8}S(O)_{2}NR^{14}R^{12}, -X^{8}NR^{12}S(O)_{2}R^{14}, -X^{8}NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^{8}NR^{12}C(NR^{12})NR^{14}R^{12}$

 $R^{15} \text{ is } (C_{6\text{-}10}) \text{aryl, hetero}(C_{5\text{-}10}) \text{aryl, } (C_{9\text{-}10}) \text{bicycloaryl or hetero}(C_{8\text{-}10}) \text{bicycloaryl;}$ $R^{17} \text{ is hydrogen, } (C_{1\text{-}6}) \text{alkyl, } (C_{3\text{-}10}) \text{cycloalkyl}(C_{0\text{-}6}) \text{alkyl, }$ $\text{hetero}(C_{3\text{-}10}) \text{cycloalkyl}(C_{0\text{-}6}) \text{alkyl, } (C_{6\text{-}10}) \text{aryl}(C_{0\text{-}6}) \text{alkyl, hetero}(C_{5\text{-}10}) \text{aryl}(C_{0\text{-}6}) \text{alkyl, }$ $(C_{9\text{-}10}) \text{bicycloaryl}(C_{0\text{-}6}) \text{alkyl or hetero}(C_{8\text{-}10}) \text{bicycloaryl}(C_{0\text{-}6}) \text{alkyl; }$

 $R^{18} \text{ is } (C_{1\text{-}6}) \text{alkyl}, (C_{3\text{-}10}) \text{cycloalkyl} (C_{0\text{-}6}) \text{alkyl}, \text{ hetero}(C_{3\text{-}10}) \text{cycloalkyl} (C_{0\text{-}6}) \text{alkyl}, \\ (C_{6\text{-}10}) \text{aryl} (C_{0\text{-}6}) \text{alkyl}, \text{ hetero}(C_{5\text{-}10}) \text{aryl} (C_{0\text{-}6}) \text{alkyl}, (C_{9\text{-}10}) \text{bicycloaryl} (C_{0\text{-}6}) \text{alkyl} \text{ or } \\ \text{hetero}(C_{8\text{-}10}) \text{bicycloaryl} (C_{0\text{-}6}) \text{alkyl}; \text{ and } \\$

 R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C_{4-8}) heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -NR²¹- or -O-, wherein the ring is unsubstituted or substituted with R^2 , wherein R^2 is as defined above, and R^{21} is hydrogen, -C(O)OR¹², -C(O)R¹², -C(O)NR¹²R¹², -S(O)₂NR¹²R¹², -S(O)R¹³ and -S(O)₂R¹³, -S(O)R¹⁴, -S(O)₂R¹⁴,

 $-C(O)R^{14}$, $-C(O)OR^{14}$, $-C(O)NR^{12}R^{12}$ and $-S(O)_2NR^{14}R^{12}$, wherein R^{12} , R^{13} and R^{14} are as defined above;

wherein within R³, R⁴, R¹⁵, R¹⁷ and R¹⁸ any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C₁₋₆)alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, 5 $-X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12},$ $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)R^{13}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)R^{13}, -X^5NR^{12}C(O)R^{12}, -X$ $-X^5C(O)R^{13}$ and $-X^5S(O)_2R^{13}$ and/or 1 radical selected from $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12}, -X^5NR^{14}R^{14}, -X^5NR^{14}R^{14}, -X^5NR^{14}R^{14}, -X^5NR^{14}R^{14}, -X^5NR^{14}R^{14}, -X^$ 10 $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}S(O)_2R^{14},$ -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹²; and within R³ and R⁴ any aliphatic moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cvano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)OR¹², -NR¹²C(O)NR¹²R¹², $-NR^{12}C(NR^{12})NR^{12}R^{12}, -OR^{12}, -SR^{12}, -C(O)OR^{12}, -C(O)R^{12}, -OC(O)R^{12}, -C(O)NR^{12}R^{12}, -OC(O)R^{12}, -OC(O)R^{12}$ 15 $-S(O)_2NR^{12}R^{12}, -NR^{12}S(O)_2R^{12}, -P(O)(OR^{12})OR^{12}, -OP(O)(OR^{12})OR^{12}, -NR^{12}C(O)R^{13},$ -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above; with the proviso that only one bicyclic ring structure is present within R³, R⁴ or R¹⁵; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds 20 and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

5. A compound of Claim 1 or Claim 2 in which:

 X^1 is -NHC(R^1)(R^2) X^3 or -NHCH(R^{19})C(O) R^{20} ;

 X^2 is hydrogen, fluoro, -OH, -OR⁴ or -NR¹⁷R¹⁸ and X^7 is hydrogen or X^2 and X^7 both represent fluoro;

X³ is cyano;

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wherein within X^3 any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$, -

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 $-X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13} \text{ and } -X^5S(O)_2R^{13} \\ \text{and/or 1 radical selected from } -R^{14}, -X^5OR^{14}, -X^5SR^{14}, -X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, \\ -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12}, -X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, \\ -X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}C(O)NR^{14}R^{12} \text{ and } \\ -X^5NR^{12}C(NR^{12})NR^{14}R^{12}, \text{ wherein } X^5 \text{ is a bond or } (C_{1-6})\text{alkylene; } R^{12} \text{ at each occurrence} \\ \text{independently is hydrogen, } (C_{1-6})\text{alkyl or halo-substituted}(C_{1-6})\text{alkyl; } R^{13} \text{ is } (C_{1-6})\text{alkyl or halo-substituted}(C_{1-6})\text{alkyl}, \\ \text{hetero}(C_{3-10})\text{cycloalkyl}(C_{0-3})\text{alkyl, } (C_{6-10})\text{aryl}(C_{0-6})\text{alkyl, hetero}(C_{5-10})\text{aryl}(C_{0-6})\text{alkyl,} \\ (C_{9-10})\text{bicycloaryl}(C_{0-6})\text{alkyl or hetero}(C_{8-10})\text{bicycloaryl}(C_{0-6})\text{alkyl;} \end{aligned}$

R¹ is hydrogen or (C₁₋₆)alkyl and R² is selected from a group consisting of hydrogen, evano, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)OR^{12}$, $-R^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$, $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12},$ $-X^5NR^{12}C(O)R^{14}$, $-X^5NR^{12}C(O)OR^{14}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{14}R^{12}$, $-X^5NR^{12}S(O)_2R^{14}$, $-X^5NR^{12}C(O)NR^{14}R^{12} \ and \ -X^5NR^{12}C(NR^{12})NR^{14}R^{12}, \ wherein \ X^5, \ R^{12}, \ R^{13} \ and \ R^{14} \ are \ as$ defined above; or R1 and R2 taken together with the carbon atom to which both R1 and R2 are attached form (C₃₋₈)cycloalkylene or (C₃₋₈)heterocycloalkylene; wherein within said R² any heteroaryl, aryl, cycloalkyl, heterocycloalkyl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with 1 to 3 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², $-X^5NR^{12}C(O)OR^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$ $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$ and $-X^5C(O)R^{13}$, wherein X^5 , R^{12} and R^{13} are as defined above;

 $R^{3} \text{ is } (C_{1-6}) \text{alkyl or } -C(R^{6})(R^{6})X^{6}, \text{ wherein } R^{6} \text{ is hydrogen or } (C_{1-6}) \text{alkyl and } X^{6} \text{ is selected from } -X^{5}NR^{12}R^{12}, -X^{5}NR^{12}C(O)R^{12}, -X^{5}NR^{12}C(O)OR^{12}, -X^{5}NR^{12}C(O)NR^{12}R^{12}, -X^{5}NR^{12}C(O)NR^{12}R^{12}, -X^{5}NR^{12}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}, -X^{5}C(O)R^{12}R^{12}, -X^{5}R^{12}R^{12}, -X^{5}R^{12}R^{12}R^{12}, -X^{5}R^{12}R^{12}R^{12}, -X^{5}R^{12}R^{12}R^{12}, -X^{5}R^{12}R^{12}R^{12}R^{12}, -X^{5}R^{12}$

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 $-X^5NR^{12}S(O)_2R^{14}$, $-X^5NR^{12}C(O)NR^{14}R^{12}$ and $-X^5NR^{12}C(NR^{12})NR^{14}R^{12}$ wherein X^5 , R^{12} , R^{13} and R^{14} are as defined above;

 $R^4 \text{ is selected from } -X^8NR^{12}R^{12}, -X^8NR^{12}C(O)R^{12}, -X^8NR^{12}C(O)OR^{12}, \\ -X^8NR^{12}C(O)NR^{12}R^{12}, -X^8NR^{12}C(NR^{12})NR^{12}R^{12}, -X^8OR^{12}, -X^8SR^{12}, -X^5C(O)OR^{12}, \\ -X^5C(O)R^{12}, -X^8OC(O)R^{12}, -X^5C(O)NR^{12}R^{12}, -X^8S(O)_2NR^{12}R^{12}, -X^8NR^{12}S(O)_2R^{12}, \\ -X^8P(O)(OR^{12})OR^{12}, -X^8OP(O)(OR^{12})OR^{12}, -X^5C(O)R^{13}, -X^8NR^{12}C(O)R^{13}, -X^8S(O)_2R^{13}, -R^{14}, -X^8OR^{14}, -X^8SR^{14}, -X^8S(O)R^{14}, -X^8S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, \\ -X^8OC(O)R^{14}, -X^8NR^{14}R^{12}, -X^8NR^{12}C(O)R^{14}, -X^8NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, \\ -X^8S(O)_2NR^{14}R^{12}, -X^8NR^{12}S(O)_2R^{14}, -X^8NR^{12}C(O)NR^{14}R^{12} \text{ and } -X^8NR^{12}C(NR^{12})NR^{14}R^{12} \\ \text{wherein } X^8 \text{ is } (C_{1-6})\text{alkylene and } X^5, R^{12}, R^{13} \text{ and } R^{14} \text{ are as defined above, with the proviso that when } X^3 \text{ is cyano and } X^2 \text{ is } -OR^4, \text{ where } R^4 \text{ is defined as } -R^{14}, \text{ then } R^{14} \text{ is } \\ (C_{3-10})\text{cycloalkyl}(C_{1-6})\text{alkyl}, \text{ hetero}(C_{3-10})\text{bicycloaryl}(C_{1-6})\text{alkyl}, \text{ or hetero}(C_{8-10})\text{bicycloaryl}(C_{1-6})\text{alkyl}; \\ \end{cases}$

 $R^{15} \text{ is } (C_{6\text{-}10}) \text{aryl, hetero}(C_{5\text{-}10}) \text{aryl, } (C_{9\text{-}10}) \text{bicycloaryl or hetero}(C_{8\text{-}10}) \text{bicycloaryl;} \\ R^{17} \text{ is } (C_{1\text{-}6}) \text{alkyl, } (C_{3\text{-}10}) \text{cycloalkyl}(C_{1\text{-}6}) \text{alkyl, hetero}(C_{3\text{-}10}) \text{cycloalkyl}(C_{1\text{-}6}) \text{alkyl,} \\ (C_{6\text{-}10}) \text{aryl}(C_{1\text{-}6}) \text{alkyl, hetero}(C_{5\text{-}10}) \text{aryl}(C_{1\text{-}6}) \text{alkyl, } (C_{9\text{-}10}) \text{bicycloaryl}(C_{1\text{-}6}) \text{alkyl;} \\ \text{hetero}(C_{8\text{-}10}) \text{bicycloaryl}(C_{1\text{-}6}) \text{alkyl;} \\$

 R^{18} is (C_{1-6}) alkyl, (C_{3-10}) cycloalkyl (C_{1-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{1-6}) alkyl, (C_{6-10}) aryl (C_{1-6}) alkyl, hetero (C_{5-10}) aryl (C_{1-6}) alkyl, (C_{9-10}) bicycloaryl (C_{1-6}) alkyl or hetero (C_{8-10}) bicycloaryl (C_{1-6}) alkyl; and

 R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C_{4-8}) heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -NR²¹- or -O-, wherein the ring is unsubstituted or substituted with R^2 , wherein R^2 is as defined above, and R^{21} is hydrogen, -C(O)OR¹², -C(O)R¹², -C(O)NR¹²R¹², -S(O)₂NR¹²R¹², -S(O)R¹³ and -S(O)₂R¹³, -S(O)R¹⁴, -S(O)₂R¹⁴, -C(O)OR¹⁴, -C(O)OR¹⁴, -C(O)NR¹²R¹² and -S(O)₂NR¹⁴R¹², wherein R^{12} , R^{13} and R^{14} are as defined above;

wherein within R^3 , R^4 , R^{15} , R^{17} and R^{18} any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$

 $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)R^{13}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)R^{13}, -X^5NR^{12}C(O)R^{12}, -X$ $-X^5C(O)R^{13}$ and $-X^5S(O)_2R^{13}$ and/or 1 radical selected from $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^{5}S(O)R^{14}$, $-X^{5}S(O)_{2}R^{14}$, $-X^{5}C(O)R^{14}$, $-X^{5}C(O)OR^{14}$, $-X^{5}OC(O)R^{14}$, $-X^{5}NR^{14}R^{12}$, $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{14}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}S(O)_2R^{14},$ $-X^5NR^{12}C(O)NR^{14}R^{12}$ and $-X^5NR^{12}C(NR^{12})NR^{14}R^{12}$; and within R^3 and R^4 any aliphatic 5 moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cyano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)OR¹², -NR¹²C(O)NR¹²R¹², $-NR^{12}C(NR^{12})NR^{12}R^{12}, -OR^{12}, -SR^{12}, -C(O)OR^{12}, -C(O)R^{12}, -OC(O)R^{12}, -C(O)NR^{12}R^{12}, -O(O)R^{12}, -O(O)R$ $-S(O)_2NR^{12}R^{12}$, $-NR^{12}S(O)_2R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above, with the proviso 10 that when X² is -OR⁴, where R⁴ is defined as -R¹⁴, or -NHR¹⁸, then any aromatic ring system present within R¹⁴ or R¹⁸ is not substituted further by halo, (C₃₋₁₀)cycloalkyl, hetero(C₃₋₁₀)cycloalkyl, (C₆₋₁₀)aryl, hetero(C₅₋₁₀)aryl, (C₉₋₁₀)bicycloaryl or hetero(C₈₋₁₀)bicycloaryl; with the proviso that only one bicyclic ring structure is present within R³, R⁴ or R¹⁵; and the N-oxide derivatives, prodrug derivatives, protected derivatives, 15 individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

A compound of Claim 1 or 2 in which: 6. 20 X^{1} is -NHC(R^{1})(R^{2}) X^{3} or -NHCH(R^{19})C(O) R^{20} ; X² is -OH, -OC(O)NR¹²R¹² or -OC(O)R¹⁴, wherein R¹² and R¹⁴ are as defined below; X^3 is evano. $-C(R^7)(R^8)R^{16}$, $-C(R^6)(OR^6)_2$, $-CH_2C(O)R^{16}$, $-CH=CHS(O)_2R^5$, $-C(O)CF_2C(O)NR^5R^5$, $-C(O)C(O)NR^5R^6$, $-C(O)C(O)OR^5$, $-C(O)CH_2OR^5$, -C(O)CH₂N(R⁶)SO₂R⁵ or -C(O)C(O)R⁵; wherein R⁵ is hydrogen, (C₁₋₄)alkyl, 25 (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, hetero (C_{3-10}) cycloalkyl (C_{0-3}) alkyl, (C_{6-10}) aryl (C_{0-6}) alkyl, hetero(C₅₋₁₀)aryl(C₀₋₆)alkyl, (C₉₋₁₀)bicycloaryl(C₀₋₆)alkyl or hetero(C_{8-10})bicycloaryl(C_{0-6})alkyl; R^6 is hydrogen, hydroxy or (C_{1-6})alkyl; or where X^3 contains an -NR⁵R⁶ group, R⁵ and R⁶ together with the nitrogen atom to which they are both attached, form hetero(C_{3-10})cycloalkyl, hetero(C_{5-10})aryl or hetero(C_{8-10})bicycloaryl; R^7 is 30 hydrogen or (C₁₋₄)alkyl and R⁸ is hydroxy or R⁷ and R⁸ together form oxo; R¹⁶ is hydrogen, - X^4 , -CF₃, -CF₂CF₂R⁹ or -N(R⁶)OR⁶; R⁹ is hydrogen, halo, (C₁₋₄)alkyl, (C₅₋₁₀)aryl(C₀₋₆)alkyl or (C_{5-10}) heteroaryl (C_{0-6}) alkyl;

X⁴ comprises a heteromonocyclic ring containing 4 to 7 ring member atoms or a fused heterobicyclic ring system containing 8 to 14 ring member atoms and any carbocyclic ketone, iminoketone or thioketone derivative thereof;

wherein within R⁵, X³ or X⁴ any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, 5 cvano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², $-X^5NR^{12}C(O)OR^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^5OR^{12}$, $-X^5SR^{12}$, $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}$ and -X⁵S(O)₂R¹³ and/or 1 radical selected from -R¹⁴, -X⁵OR¹⁴, -X⁵SR¹⁴, -X⁵S(O)R¹⁴, 10 $-X^{5}S(O)_{2}R^{14}$, $-X^{5}C(O)R^{14}$, $-X^{5}C(O)OR^{14}$, $-X^{5}OC(O)R^{14}$, $-X^{5}NR^{14}R^{12}$, $-X^{5}NR^{12}C(O)R^{14}$, $-X^5NR^{12}C(O)OR^{14}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{14}R^{12}$, $-X^5NR^{12}S(O)_2R^{14}$, $-X^5NR^{12}C(O)NR^{14}R^{12}$ and $-X^5NR^{12}C(NR^{12})NR^{14}R^{12}$, wherein X^5 is a bond or (C_{1-6}) alkylene; R^{12} at each occurrence independently is hydrogen, (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; R^{13} is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; and R^{14} is (C_{3-10}) cycloalkyl (C_{0-6}) alkyl, 15 $hetero(C_{3-10})cycloalkyl(C_{0-3})alkyl, (C_{6-10})aryl(C_{0-6})alkyl, hetero(C_{5-10})aryl(C_{0-6})alkyl,$ (C_{9-10}) bicycloaryl (C_{0-6}) alkyl or hetero (C_{8-10}) bicycloaryl (C_{0-6}) alkyl;

R¹ is hydrogen or (C₁₋₆)alkyl and R² is selected from a group consisting of hydrogen, cyano, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)OR^{12}$, $-R^{12}$, $-X^5NR^{12}C(O)NR^{12}R^{12}$, $-X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12}, -X^5C(O)OR^{12}, -X^5C(O)R^{12}, -X^5OC(O)R^{12}, -X^5OC(O)R^$ 20 $-X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{12}R^{12}, -X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12},$ $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$, $-X^5S(O)_2R^{13}$, $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12}, -X^5NR^{14}R^{14}, -X^$ $-X^5NR^{12}C(O)R^{14}, -X^5NR^{12}C(O)OR^{14}, -X^5C(O)NR^{12}R^{12}, -X^5S(O)_2NR^{14}R^{12}, -X^5NR^{12}S(O)_2R^{14}, -X^5NR^{12}R^{12}, -X^5N$ $-X^5NR^{12}C(O)NR^{14}R^{12}$ and $-X^5NR^{12}C(NR^{12})NR^{14}R^{12}$, wherein X^5 , R^{12} , R^{13} and R^{14} are as 25 defined above; or R¹ and R² taken together with the carbon atom to which both R¹ and R² are attached form (C₃₋₈)cycloalkylene or (C₃₋₈)heterocycloalkylene; wherein within said R² any heteroaryl, aryl, cycloalkyl, heterocycloalkyl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with 1 to 3 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², 30 $-X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12}, -X^5NR^{12}R^{12}, -X^5NR^{12}, -X^5NR^{12}, -X^5NR^{12}, -X^5NR^{12}, -X^5NR^{12}, -X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}$, $-X^5P(O)(OR^{12})OR^{12}$, $-X^5OP(O)(OR^{12})OR^{12}$, $-X^5NR^{12}C(O)R^{13}$, $-X^5S(O)R^{13}$,

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-X⁵S(O)₂R¹³ and -X⁵C(O)R¹³, wherein X⁵, R¹² and R¹³ are as defined above;

 $R^3 \text{ is } (C_{1-6}) \text{alkyl or } -C(R^6)(R^6)X^6, \text{ wherein } R^6 \text{ is hydrogen or } (C_{1-6}) \text{alkyl and } X^6 \text{ is selected from } -X^5NR^{12}R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}, -X^5C(O)R^{12}R^{12}, -X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5C(O)R^{12}R^{12}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{13}, -X^5C(O)R^{14}, -X^5C(O)R^{14$

 R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C_{4-8}) heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -NR²¹- or -O-, wherein and the ring is unsubstituted or substituted with R^2 , wherein R^2 is as defined above, and R^{21} is hydrogen, -C(O)OR¹², -C(O)R¹², -C(O)NR¹²R¹², -S(O)₂NR¹²R¹², -S(O)R¹³ and -S(O)₂R¹³, -S(O)R¹⁴, -S(O)₂R¹⁴, -C(O)OR¹⁴, -C(O)OR¹⁴, -C(O)NR¹²R¹² and -S(O)₂NR¹⁴R¹², wherein R^{12} , R^{13} and R^{14} are as defined above;

wherein within R³, R⁴, R¹⁵, R¹⁷ and R¹⁸ any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C₁₋₆)alkyl, (C₁₋₆)alkylidene, cyano, halo, halo-substituted(C₁₋₄)alkyl, nitro, -X⁵NR¹²R¹², -X⁵NR¹²C(O)R¹², 20 $-X^5NR^{12}C(O)OR^{12}, -X^5NR^{12}C(O)NR^{12}R^{12}, -X^5NR^{12}C(NR^{12})NR^{12}R^{12}, -X^5OR^{12}, -X^5SR^{12},$ $-X^5C(O)OR^{12}$, $-X^5C(O)R^{12}$, $-X^5OC(O)R^{12}$, $-X^5C(O)NR^{12}R^{12}$, $-X^5S(O)_2NR^{12}R^{12}$, $-X^5NR^{12}S(O)_2R^{12}, -X^5P(O)(OR^{12})OR^{12}, -X^5OP(O)(OR^{12})OR^{12}, -X^5NR^{12}C(O)R^{13}, -X^5S(O)R^{13}, -X^5S(O)R^{12}, -X^5NR^{12}C(O)R^{12}, -X$ $-X^5C(O)R^{13}$ and $-X^5S(O)_2R^{13}$ and/or 1 radical selected from $-R^{14}$, $-X^5OR^{14}$, $-X^5SR^{14}$, $-X^5S(O)R^{14}, -X^5S(O)_2R^{14}, -X^5C(O)R^{14}, -X^5C(O)OR^{14}, -X^5OC(O)R^{14}, -X^5NR^{14}R^{12}, -X^5NR^{14}R^{14}, -X^$ 25 $-X^5NR^{12}C(O)R^{14}$, $-X^5NR^{12}C(O)OR^{14}$, $-X^5C(O)NR^{14}R^{12}$, $-X^5S(O)_2NR^{14}R^{12}$, $-X^5NR^{12}S(O)_2R^{14}$, -X⁵NR¹²C(O)NR¹⁴R¹² and -X⁵NR¹²C(NR¹²)NR¹⁴R¹²; and within R³ and R⁴ any aliphatic moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cyano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)OR¹², -NR¹²C(O)NR¹²R¹², $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)R^{12}$, $-OC(O)R^{12}$, $-C(O)NR^{12}R^{12}$, 30 $-S(O)_2NR^{12}R^{12}, -NR^{12}S(O)_2R^{12}, -P(O)(OR^{12})OR^{12}, -OP(O)(OR^{12})OR^{12}, -NR^{12}C(O)R^{13}, -NR^{12}C(O)R^{12}, -NR^{12}C(O)R$ -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above; with the proviso that only one bicyclic ring structure is present within R³, R⁴ or R¹⁵; and the N-oxide

derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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7. The compound of Claim 1 or Claim 2 in which:

 X^1 is -NHC(R^1)(R^2)C(O)C(O)NR⁵R⁶, wherein R^5 is hydrogen, (C_{1-4})alkyl, (C_{3-10})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-10})cycloalkyl(C_{0-3})alkyl, (C_{6-10})aryl(C_{0-6})alkyl, hetero(C_{5-10})aryl(C_{0-6})alkyl, (C_{9-10})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-10})bicycloaryl(C_{0-6})alkyl and R^6 is hydrogen, hydroxy or (C_{1-6})alkyl or R^5 and R^6 together with the nitrogen atom to which they are both attached form hetero(C_{3-10})cycloalkyl, hetero(C_{5-10})aryl or hetero(C_{8-10})bicycloaryl;

X² is hydrogen;

wherein within X^1 any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5C(O)R^{12}$, $-X^5C(O)R^{14}$, $-X^5$

 R^1 is hydrogen and R^2 is (C_{1-6}) alkyl; and

 R^3 is $-CH_2X^6$, wherein X^6 is $-X^5NR^{12}S(O)_2R^{12}$ or $-X^5S(O)_2R^{14}$ wherein X^5 , R^{12} and R^{14} are as defined above;

wherein within R^3 any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6}) alkyl, (C_{1-6}) alkylidene, cyano, halo, halo-substituted (C_{1-4}) alkyl, nitro, $-X^5NR^{12}R^{12}$, $-X^5NR^{12}C(O)R^{12}$, $-X^5NR^{12}C(O)R^{12}$,

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-X⁵NR¹²C(O)NR¹²R¹², -X⁵NR¹²C(NR¹²)NR¹²R¹², -X⁵OR¹², -X⁵S(O)₂NR¹²R¹², -X⁵C(O)OR¹², -X⁵C(O)OR¹², -X⁵C(O)R¹², -X⁵C(O)R¹², -X⁵C(O)R¹²R¹², -X⁵NR¹²S(O)₂R¹², -X⁵NR¹²S(O)₂R¹³, -X⁵C(O)R¹³, -X⁵C(O)R¹³, -X⁵C(O)R¹³ and -X⁵S(O)₂R¹³ and within R³ any aliphatic moiety is unsubstituted or substituted further by 1 to 5 radicals independently selected from cyano, halo, nitro, -NR¹²R¹², -NR¹²C(O)R¹², -NR¹²C(O)R¹², -NR¹²C(O)NR¹²R¹², -NR¹²C(NR¹²)NR¹²R¹², -OR¹², -SR¹², -C(O)OR¹², -C(O)R¹², -OC(O)R¹², -C(O)NR¹²R¹², -S(O)₂NR¹²R¹², -NR¹²S(O)₂R¹², -P(O)(OR¹²)OR¹², -OP(O)(OR¹²)OR¹², -NR¹²C(O)R¹³, -S(O)R¹³ and -S(O)₂R¹³; wherein X⁵, R¹², R¹³ and R¹⁴ are as described above; with the proviso that only one bicyclic ring structure is present within R³; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof:

8. The compound of Claim 3 in which:

 X^1 is -NHC(R^1)(R^2) X^3 or -NHCH(R^{19})C(O) R^{20} , wherein R^1 is hydrogen or (C₁₋₆)alkyl and R^2 is hydrogen, (C₁₋₆)alkyl, -X⁵OR¹², -X⁵S(O) R^{13} , -X⁵OR¹⁴, (C₆₋₁₀)aryl(C₀₋₆)alkyl or hetero(C₅₋₁₀)aryl(C₀₋₆)alkyl or R^1 and R^2 taken together with the carbon atom to which both R^1 and R^2 are attached form (C₃₋₆)cycloalkylene or (C₃₋₆)heterocycloalkylene, wherein within said R^2 any heteroaryl, aryl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with (C₁₋₆)alkyl or hydroxy, wherein X^3 is cyano, -C(O) R^{16} , -C(R^6)(OR⁶)₂, -CH=CHS(O)₂ R^5 , -CH₂C(O) R^{16} , -C(O)CF₂C(O)NR⁵ R^5 , -C(O)C(O)NR⁵ R^6 , -C(O)C(O)OR⁵, -C(O)CH₂OR⁵, -C(O)CH₂N(R^6)SO₂ R^5 or -C(O)C(O)R⁵ and R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C₄₋₈)heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -NR²¹-or -O-, wherein the ring is unsubstituted or substituted with (C₁₋₆)alkyl or -X⁵C(O)OR¹² and R^{21} is hydrogen, (C₁₋₆)alkyl, -X⁵C(O) R^{12} , -X⁵C(O)OR¹², -R¹⁴, -X⁵C(O) R^{14} or -C(O)OR¹⁴;

 X^2 is -OH or -OC(O)NR¹²R¹², wherein each R¹² independently represent hydrogen or (C₁₋₆)alkyl, wherein said alkyl is unsubstituted or substituted with hydroxy or methoxy, or X^2 is -OC(O)NHR¹⁴, wherein R¹⁴ is (C₃₋₁₀)cycloalkyl(C₀₋₆)alkyl or hetero(C₃₋₁₀)cycloalkyl(C₁₋₃)alkyl, or X^2 is -OC(O)R¹⁴, wherein R¹⁴ is -NR²²R²³ and R²² and R²³ together with the nitrogen atom to which both R²² and R²³ attached form a hetero(C₄₋₆)cycloalkyl ring, which ring may be unsubstituted or substituted with hydroxy; and

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R³ is -CH₂X⁶; wherein X⁶ is is selected from -X⁵SR¹², -X⁵C(O)NR¹²R¹², -X⁵S(O)₂R¹³, -X⁵C(O)R¹³, -X⁵OR¹², -X⁵SR¹⁴, -X⁵R¹⁴, -X⁵S(O)₂R¹⁴, -X⁵C(O)R¹⁴, -X⁵C(O)NR¹⁴R¹²; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

9. The compound of Claim 8 in which:

X³ is cyano, -C(O)X⁴, -C(O)H, -C(O)N(CH₃)OCH₃, -CH(OCH₃)₂, -C(O)CF₃, -C(O)CF₂CF₃, -CH₂C(O)R¹⁶, (E)-2-benzenesulfonyl-vinyl, 2-dimethylcarbamoyl-2,2-difluoro-acetyl, 2-oxo-2-pyrrolidin-1-yl-acetyl, 2-morpholin-4-yl-2-oxo-acetyl, 2-oxo-2-piperazin-1-yl-acetyl, 2-(4-methanesulfonyl-piperazin-1-yl)-2-oxo-acetyl, 2-(1,1-dioxo-1□⁶-thiomorpholin-4-yl)-2-oxo-acetyl, dimethylaminooxalyl, tetrahydro-pyran-4-ylaminooxalyl, 2-morpholin-4-yl-ethylaminooxalyl, cyclopentyl-ethyl-aminooxalyl, pyridin-3-ylaminooxalyl, phenylaminooxalyl, 1-benzoyl-piperidin-4-ylaminooxalyl, 1-benzylcarbamoyl-methanoyl, 1-benzyloxy(oxalyl), 2-benzyloxy-acetyl, 2-benzenesulfonylamino-ethanoyl, 2-oxo-2-phenyl-ethanoyl, 3*H*-oxazole-2-carbonyl, 5-trifluoromethyl-oxazole-2-carbonyl, 3-trifluoromethyl-[1,2,4]oxadiazole-5-carbonyl, 2,2,3,3,3-pentafluoro-propionyl, hydroxyaminooxalyl, oxalyl, 2-(1,3-dihydro-isoindol-2-yl)-2-oxo-acetyl, benzothiazol-2-ylaminooxalyl, 2-oxo-ethyl, 2-oxazol-2-yl-2-oxo-ethyl or 2-benzooxazol-2-yl-2-oxo-ethyl;

X² is selected from -OH, dimethylcarbamoyloxy, morpholin-4-ylcarbonyloxy, piperidin-1-yl-carbonyloxy, pyrrolidin-1-yl-carbonyloxy, pyrimidin-2-ylamino, tetrahydro-pyran-4-ylamino, 1-methyl-piperidin-4-ylamino, N-(2-methoxyethyl)-N-(tetrahydro-pyran-4-yl)amino, isopropylamino and cyclohexylamino;
4-tert-butoxycarbonylpiperazin-1-ylcarbonyloxy, N-benzyl-carbamoyloxy, pyrrolidin-1-yl-carbonyloxy, N,N-dimethyl-carbamoyloxy, piperidin-1-yl-carbonyloxy, 4-methanesulfonyl-piperazin-1-yl-carbonyloxy, 4-ethoxycarbonylpiperazin-1-ylcarbonyloxy, N-cyclohexyl-carbamoyloxy, N-phenyl-carbamoyloxy, N-(5,6,7,8-tetrahydro-naphthalen-1-yl)-carbamoyloxy, N-butyl-N-methyl-carbamoyloxy, N-pyridin-3-yl-carbamoyloxy, N-isopropyl-carbamoyloxy, N-pyridin-4-yl-carbamoyloxy, N-cyanomethyl-N-methyl-carbamoyloxy, N,N-bis-(2-methoxy-ethyl)-carbamoyloxy, N-phenethyl-carbamoyloxy, piperazine-carbonyloxy, N-naphthalen-2-yl-carbamoyloxy, 4-benzyl-piperazine-1-carbamoyloxy, 4-(1-furan-2-yl-

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carbonyl)-piperazine-1-carbamoyloxy, thiomorpholin-4-yl- carbonyloxy, 1,1-dioxo-1λ⁶- thiomorpholin-4-yl)- carbonyloxy, bis-(2-methoxy-ethyl)-carbamoyloxy, morpholin-4-ylcarbonyloxy, 2-methoxyethylcarbamoyloxy, diethylcarbamoyloxy, pyrrolidin-1-ylcarbonyloxy, 2-hydroxyethylcarbamoyloxy, tetrahydro-furan-2-ylmethylcarbamoyloxy, cyclopropylcarbamoyloxy, *tert*-butylcarbamoyloxy, 3-hydroxy-pyrrolidin-1-yl-carbonyloxy and carbamoyloxy; and

R³ is thiophene-2-sulfonyl-methyl, 3-chloro-2-fluoro-phenyl-methane-sulfonyl-methyl, benzene-sulfonyl-methyl, phenyl-methane-sulfonyl-methyl, 2-(1,1-difluoro-methoxy)-phenylmethane-sulfonyl-methyl, 2-benzene-sulfonyl-ethyl, 2-(pyridine-2-sulfonyl)-ethyl, 2-(pyridine-4-sulfonyl)-ethyl, 2-phenyl-methanesulfonyl-ethyl, oxy-pyridin-2-yl-methanesulfonyl-methyl, prop-2-ene-1-sulfonyl-methyl, 4-methoxy-phenyl-methane-sulfonyl-methyl, p-tolyl-methane-sulfonyl-methyl, 4-chloro-phenyl-methane-sulfonyl-methyl, o-tolyl-methanesulfonyl-methyl, 3,5-dimethyl-phenyl-methane-sulfonyl-methyl, 4-trifluoro-methyl-phenylmethane-sulfonyl-methyl, 4-trifluoro-methoxy-phenyl-methane-sulfonyl-methyl, 2-bromo-phenyl-methane-sulfonyl-methyl, pyridin-2-yl-methane-sulfonyl-methyl, pyridin-3-yl-methane-sulfonyl-methyl, pyridin-4-yl-methane-sulfonyl-methyl, naphthalen-2-yl-methane-sulfonyl-methyl, 3-methyl-phenyl-methane-sulfonyl-methyl, 3-trifluoro-methyl-phenyl-methane-sulfonyl-methyl, 3-trifluoro-methoxy-phenyl-methanesulfonyl-methyl, 4-fluoro-2-trifluoromethoxy-phenyl-methane-sulfonylmethyl, 2-fluoro-6-trifluoromethyl-phenylmethanesulfonylmethyl, 3-chloro-phenylmethanesulfonylmethyl, 2-fluoro-phenylmethanesulfonylmethyl, 2-trifluoro-phenylmethanesulfonylmethyl, 2-cyano-phenylmethanesulfonylmethyl, 4-tert-butyl-phenylmethanesulfonylmethyl, 2-fluoro-3-methyl-phenyl-methane-sulfonylmethyl, 3-fluoro-phenylmethanesulfonylmethyl, 4-fluoro-phenylmethane-sulfonylmethyl, 2-chloro-phenylmethanesulfonylmethyl, 2,5-difluoro-phenylmethane-sulfonylmethyl, 2,6-difluoro-phenylmethanesulfonylmethyl, 2,5-dichloro-phenyl-methane-sulfonylmethyl, 3,4-dichloro-phenylmethanesulfonylmethyl, 2-(1,1-difluoro-methoxy)-phenylmethanesulfonylmethyl, 2-cyano-phenyl-methane-sulfonyl-methyl, 3-cyano-phenylmethanesulfonylmethyl, 2-trifluoro-methoxy-phenyl-methane-sulfonylmethyl, 2,3-difluoro-phenylmethanesulfonylmethyl, 2,5-difluoro-phenyl-methanesulfonylmethyl,

2,3-difluoro-phenylmethanesulfonylmethyl, 2,5-difluoro-phenyl-methanesulfonylmethyl, biphenyl-2-ylmethanesulfonylmethyl, cyclohexylmethyl, 3-fluoro-phenylmethyl, methanesulfonylmethyl, 3,4-difluoro-phenyl-methanesulfonylmethyl, 2,4-difluoro-phenylmethanesulfonylmethyl, 2,4,6-trifluoro-phenylmethanesulfonylmethyl,

2,4,5-trifluoro-phenylmethanesulfonylmethyl, 2,3,4-trifluoro-phenylmethanesulfonylmethyl, 2,3,5-trifluoro-phenyl-methane-sulfonylmethyl, 2,5,6-trifluoro-phenylmethanesulfonylmethyl, 2-chloro-5-trifluoro-methylphenylmethanesulfonylmethyl, 2-methyl-propane-1-sulfonyl, 2-fluoro-3-trifluoro-methylphenylmethanesulfonylmethyl, 2-fluoro-4-trifluoromethylphenylmethanesulfonylmethyl, 2-fluoro-5-trifluoro-methyl-phenyl-methane-sulfonyl-5 methyl, 4-fluoro-3-trifluoro-methylphenylmethanesulfonylmethyl, 2-methoxy-phenylmethanesulfonylmethyl, 3,5-bis-trifluoromethyl-phenylmethanesulfonylmethyl, 4-difluoromethoxy-phenylmethanesulfonylmethyl, 2-difluoro-methoxy-phenylmethanesulfonylmethyl, 3-difluoromethoxy-phenylmethanesulfonylmethyl, 2,6-dichlorophenylmethanesulfonylmethyl, biphenyl-4-ylmethanesulfonylmethyl, 10 3,5-dimethyl-isoxazol-4-ylmethanesulfonylmethyl, 5-chloro-thien-2-yl-methanesulfonylmethyl, 2-[4-(1,1-difluoro-methoxy)-benzenesulfonyl]-ethyl, 2-[2-(1,1-difluoro-methoxy)-benzenesulfonyl]-ethyl, 2-[3-(1,1-difluoromethoxy)-benzenesulfonyl]-ethyl, 2-(4-trifluoromethoxy-benzenesulfonyl)-ethyl, 2-(3-trifluoromethoxy-benzenesulfonyl)-ethyl, 2-(2-trifluoro-methoxy-benzene-sulfonyl)-15 ethyl, (cyanomethyl-methyl-carbamoyl)-methyl, biphenyl-3-ylmethyl, 2-oxo-2-pyrrolidin-1-yl-ethyl, 2-benzenesulfonyl-ethyl, isobutylsulfanylmethyl, 2-phenylsulfanyl-ethyl, cyclohexylmethanesulfonylmethyl, 2-cyclohexyl-ethanesulfonyl, benzyl, naphthalen-2-yl, benzylsulfanylmethyl, 2-trifluoromethyl-benzylsulfanylmethyl, phenylsulfanyl-ethyl, cyclopropyl-methanesulfonylmethyl, 5-bromo-thien-2-ylmethyl, 3-20 phenyl-propyl, 2,2-difluoro-3-phenyl-propyl, 3,4,5-trimethoxy-phenylmethanesulfonylmethyl, 2,2-difluoro-3-thien-2-yl-propyl, cyclohexylethyl, cyclohexylmethyl, tert-butylmethyl, 1-methylcyclohexylmethyl, 1-methylcyclopentylmethyl, 2,2-difluoro-3-phenylpropyl, 2,2-dimethyl-3-phenylpropyl, 1-benzylcyclopropylmethyl, $-X^5S(O)_2R^{13}$ and $-X^5S(O)_2R^{14}$, wherein R¹³ is alkyl and R¹⁴ is phenyl which phenyl is unsubstituted or substituted; and the 25 N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

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10. A compound of Claim 9 in which:

X³ is 1*H*-benzoimidazol-2-ylcarbonyl, pyrimidin-2-ylcarbonyl, benzooxazol-2-ylcarbonyl, benzothiazol-2-ylcarbonyl, pyridazin-3-ylcarbonyl,

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3-phenyl-[1,2,4]oxadiazol-5-ylcarbonyl or 3-ethyl-[1,2,4]oxadiazol-5-ylcarbonyl, 2-oxo-2-pyrrolidin-1-yl-acetyl, 2-morpholin-4-yl-2-oxo-acetyl, 2-oxo-2-piperazin-1-yl-acetyl, 2-(4-methanesulfonyl-piperazin-1-yl)-2-oxo-acetyl, 2-(1,1-dioxo-1□⁶-thiomorpholin-4-yl)-2-oxo-acetyl, dimethylaminooxalyl, tetrahydro-pyran-4-ylaminooxalyl, 2-morpholin-4-yl-ethylaminooxalyl, cyclopentyl-ethyl-aminooxalyl, pyridin-3-ylaminooxalyl, phenylaminooxalyl or 1-benzoyl-piperidin-4-ylaminooxalyl;

X² is selected from -OH, dimethylcarbamoyloxy, morpholin-4-ylcarbonyloxy, piperidin-1-yl-carbonyloxy, pyrrolidin-1-yl-carbonyloxy, pyrimidin-2-ylamino, tetrahydro-pyran-4-ylamino, 1-methyl-piperidin-4-ylamino, N-(2-methoxyethyl)-N-(tetrahydro-pyran-4-yl)amino, isopropylamino and cyclohexylamino;

 R^3 is cyclohexylethyl, cyclohexylmethyl, *tert*-butylmethyl, 1-methylcyclohexylmethyl, 1-methylcyclopentylmethyl, 2,2-difluoro-3-phenylpropyl, 2,2-dimethyl-3-phenylpropyl, 1-benzylcyclopropylmethyl, $-X^5S(O)_2R^{13}$ or $-X^5S(O)_2R^{14}$, wherein R^{13} is alkyl and R^{14} is phenyl which phenyl is unsubstituted or substituted; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

11. The compound of Claim 3 in which:

 X^1 is -NHC(R^1)(R^2) X^3 or -NHCH(R^{19})C(O) R^{20} , wherein R^1 is hydrogen or (C₁₋₆)alkyl and R^2 is hydrogen, (C₁₋₆)alkyl, - X^5 OR¹², - X^5 S(O) R^{13} , - X^5 OR¹⁴, (C₆₋₁₀)aryl(C₀₋₆)alkyl or hetero(C₅₋₁₀)aryl(C₀₋₆)alkyl or R^1 and R^2 taken together with the carbon atom to which both R^1 and R^2 are attached form (C₃₋₆)cycloalkylene or (C₃₋₆)heterocycloalkylene, wherein within said R^2 any heteroaryl, aryl, cycloalkylene or heterocycloalkylene is unsubstituted or substituted with (C₁₋₆)alkyl or hydroxy, wherein X^3 is cyano, -C(O) R^{16} , -C(R^6)(O R^6)₂, -CH=CHS(O)₂ R^5 , -CH₂C(O) R^{16} , -C(O)CF₂C(O)N R^5 R 5 , -C(O)C(O)N R^5 R 6 , -C(O)C(O)OR 5 , -C(O)CH₂OR 5 , -C(O)CH₂N(R^6)SO₂ R^5 or -C(O)C(O)R 5 and R^{19} and R^{20} together with the atoms to which R^{19} and R^{20} are attached form (C₄₋₈)heterocycloalkylene, wherein no more than one of the ring member atoms comprising the ring is a heteroatom selected from -N R^{21} - or -O-, wherein the ring is unsubstituted or substituted with (C₁₋₆)alkyl or - X^5 C(O)OR¹² and R^{21} is hydrogen, (C₁₋₆)alkyl, - X^5 C(O)R¹², - X^5 C(O)OR¹², - X^5 C(O)OR¹², - X^5 C(O)OR¹⁴;

 X^2 is -NHR¹⁵, wherein R¹⁵ is (C_{6-10}) aryl, hetero (C_{5-10}) aryl, (C_{9-10}) bicycloaryl or hetero (C_{8-10}) bicycloaryl, or -NR¹⁷R¹⁸, wherein R¹⁷ is hetero (C_{3-10}) cycloalkyl and R¹⁸ is hydrogen or R¹⁷ and R¹⁸ independently are (C_{6-10}) aryl (C_{1-6}) alkyl or

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hetero(C_{5-10})aryl(C_{1-6})alkyl, wherein within R^{15} , R^{17} and R^{18} any alicyclic or aromatic ring system is unsubstituted or substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, cyano, halo, nitro, halo-substituted(C_{1-4})alkyl, - X^5OR^{12} , - $X^5C(O)OR^{12}$, - $X^5C(O)NR^{12}R^{12}$, - $X^5NR^{12}S(O)_2R^{12}$ and/or 1 radical selected from - R^{14} , - X^5OR^{14} and - $X^5C(O)NR^{14}R^{12}$; and

R³ is -CH₂X⁶; wherein X⁶ is is selected from -X⁵SR¹², -X⁵C(O)NR¹²R¹², -X⁵S(O)₂R¹³, -X⁵C(O)R¹³, -X⁵OR¹², -X⁵SR¹⁴, -X⁵R¹⁴, -X⁵S(O)₂R¹⁴, -X⁵C(O)R¹⁴, -X⁵C(O)NR¹⁴R¹²; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

12. The compound of Claim 11 in which:

X³ is cyano, -C(O)X⁴, -C(O)H, -C(O)N(CH₃)OCH₃, -CH(OCH₃)₂, -C(O)CF₃, -C(O)CF₂CF₃, -CH₂C(O)R¹⁶, (E)-2-benzenesulfonyl-vinyl, 15 2-dimethylcarbamoyl-2,2-difluoro-acetyl, 2-oxo-2-pyrrolidin-1-yl-acetyl, 2-morpholin-4-yl-2oxo-acetyl, 2-oxo-2-piperazin-1-yl-acetyl, 2-(4-methanesulfonyl-piperazin-1-yl)-2-oxo-acetyl, 2-(1.1-dioxo-1 = 6-thiomorpholin-4-yl)-2-oxo-acetyl, dimethylaminooxalyl, tetrahydropyran-4-ylaminooxalyl, 2-morpholin-4-yl-ethylaminooxalyl, cyclopentyl-ethyl-aminooxalyl, pyridin-3-ylaminooxalyl, phenylaminooxalyl, 1-benzoyl-piperidin-4-ylaminooxalyl, 20 1-benzylcarbamoyl-methanoyl, 1-benzyloxy(oxalyl), 2-benzyloxy-acetyl, 2-benzenesulfonylamino-ethanoyl, 2-oxo-2-phenyl-ethanoyl, 3H-oxazole-2-carbonyl, 5trifluoromethyl-oxazole-2-carbonyl, 3-trifluoromethyl-[1,2,4]oxadiazole-5-carbonyl, 2,2,3,3,3-pentafluoro-propionyl, hydroxyaminooxalyl, oxalyl, 2-(1,3-dihydro-isoindol-2-yl)-2oxo-acetyl, benzothiazol-2-ylaminooxalyl, 2-oxo-ethyl, 2-oxazol-2-yl-2-oxo-ethyl or 2-25 benzooxazol-2-yl-2-oxo-ethyl;

X² is selected from 5-nitrothiazol-2-ylamino, 2-nitrophenylamino, pyrimidin-2-ylamino, tetrahydro-pyran-4-ylamino, N-(2-methoxyethyl)-N-(tetrahydro-pyran-4-yl)amino, 1-methyl-piperidin-4-ylamino, isopropylamino, di(thien-2-ylmethyl)amino or di(benzyl)amino; and

R³ is thiophene-2-sulfonyl-methyl, 3-chloro-2-fluoro-phenyl-methane-sulfonyl-methyl, benzene-sulfonyl-methyl, phenyl-methane-sulfonyl-methyl, 2-(1,1-difluoro-methoxy)-phenyl-methane-sulfonyl-methyl, 2-benzene-sulfonyl-ethyl, 2-(pyridine-2-sulfonyl)-ethyl,

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2-(pyridine-4-sulfonyl)-ethyl, 2-phenyl-methanesulfonyl-ethyl, oxy-pyridin-2-yl-methanesulfonyl-methyl, prop-2-ene-1-sulfonyl-methyl, 4-methoxy-phenyl-methane-sulfonyl-methyl, p-tolyl-methane-sulfonyl-methyl, 4-chloro-phenyl-methane-sulfonyl-methyl, o-tolyl-methanesulfonyl-methyl, 3,5-dimethyl-phenyl-methane-sulfonyl-methyl, 4-trifluoro-methyl-phenylmethane-sulfonyl-methyl, 4-trifluoro-methoxy-phenyl-methane-sulfonyl-methyl, 2-bromo-phenyl-methane-sulfonyl-methyl, pyridin-2-yl-methane-sulfonyl-methyl, pyridin-3-yl-methane-sulfonyl-methyl, pyridin-4-yl-methane-sulfonyl-methyl, naphthalen-2-yl-methane-sulfonyl-methyl, 3-methyl-phenyl-methane-sulfonyl-methyl, 3-trifluoro-methyl-phenyl-methane-sulfonyl-methyl, 3-trifluoro-methoxy-phenyl-methanesulfonyl-methyl, 4-fluoro-2-trifluoromethoxy-phenyl-methane-sulfonylmethyl, 2-fluoro-6-trifluoromethyl-phenylmethanesulfonylmethyl, 3-chloro-phenylmethanesulfonylmethyl, 2-fluoro-phenylmethanesulfonylmethyl, 2-trifluoro-phenylmethanesulfonylmethyl, 2-cyano-phenylmethanesulfonylmethyl, 4-tert-butyl-phenylmethanesulfonylmethyl, 2-fluoro-3-methyl-phenyl-methane-sulfonylmethyl, 3-fluoro-phenylmethanesulfonylmethyl, 4-fluoro-phenylmethane-sulfonylmethyl, 2-chloro-phenylmethanesulfonylmethyl, 2,5-difluoro-phenylmethane-sulfonylmethyl, 2,6-difluoro-phenylmethanesulfonylmethyl, 2,5-dichloro-phenyl-methane-sulfonylmethyl, 3,4-dichloro-phenylmethanesulfonylmethyl, 2-(1,1-difluoro-methoxy)-phenylmethanesulfonylmethyl, 2-cyano-phenyl-methane-sulfonyl-methyl, 3-cyano-phenylmethanesulfonylmethyl, 2-trifluoro-methoxy-phenyl-methane-sulfonylmethyl, 2.3-difluoro-phenylmethanesulfonylmethyl, 2,5-difluoro-phenyl-methanesulfonylmethyl, biphenyl-2-ylmethanesulfonylmethyl, cyclohexylmethyl, 3-fluoro-phenylmethanesulfonylmethyl, 3,4-difluoro-phenyl-methanesulfonylmethyl, 2,4-difluoro-phenylmethanesulfonylmethyl, 2,4,6-trifluoro-phenylmethanesulfonylmethyl, 2,4,5-trifluoro-phenylmethanesulfonylmethyl, 2,3,4-trifluoro-phenylmethanesulfonylmethyl, 2,3,5-trifluoro-phenyl-methane-sulfonylmethyl, 2,5,6-trifluoro-phenylmethanesulfonylmethyl, 2-chloro-5-trifluoro-methylphenylmethanesulfonylmethyl, 2-methyl-propane-1-sulfonyl, 2-fluoro-3-trifluoro-methylphenylmethanesulfonylmethyl, 2-fluoro-4-trifluoromethylphenylmethanesulfonylmethyl, 2-fluoro-5-trifluoro-methyl-phenyl-methane-sulfonylmethyl, 4-fluoro-3-trifluoro-methylphenylmethanesulfonylmethyl, 2-methoxy-phenylmethanesulfonylmethyl, 3,5-bis-trifluoromethyl-phenylmethanesulfonylmethyl, 4-difluoromethoxy-phenylmethanesulfonylmethyl, 2-difluoro-methoxy-phenylmethanesulfonylmethyl, 3-difluoromethoxy-phenylmethanesulfonylmethyl, 2,6-dichloro-

phenylmethanesulfonylmethyl, biphenyl-4-ylmethanesulfonylmethyl, 3,5-dimethyl-isoxazol-4-ylmethanesulfonylmethyl, 5-chloro-thien-2-yl-methanesulfonylmethyl, 2-[4-(1,1-difluoro-methoxy)-benzenesulfonyl]-ethyl, 2-[2-(1,1-difluoro-methoxy)-benzenesulfonyl]-ethyl, 2-[3-(1,1-difluoromethoxy)-benzenesulfonyl]-ethyl, 2-(4-trifluoromethoxy-benzenesulfonyl)-ethyl, 5 2-(3-trifluoromethoxy-benzenesulfonyl)-ethyl, 2-(2-trifluoro-methoxy-benzene-sulfonyl)ethyl, (cyanomethyl-methyl-carbamoyl)-methyl, biphenyl-3-ylmethyl, 2-oxo-2-pyrrolidin-1-yl-ethyl, 2-benzenesulfonyl-ethyl, isobutylsulfanylmethyl, 2-phenylsulfanyl-ethyl, cyclohexylmethanesulfonylmethyl, 2-cyclohexyl-ethanesulfonyl, benzyl, naphthalen-2-yl, benzylsulfanylmethyl, 2-trifluoromethyl-benzylsulfanylmethyl, 10 phenylsulfanyl-ethyl, cyclopropyl-methanesulfonylmethyl, 5-bromo-thien-2-ylmethyl, 3phenyl-propyl, 2,2-difluoro-3-phenyl-propyl, 3,4,5-trimethoxy-phenylmethanesulfonylmethyl, 2,2-difluoro-3-thien-2-yl-propyl, cyclohexylethyl, cyclohexylmethyl, tert-butylmethyl, 1-methylcyclohexylmethyl, 1-methylcyclopentylmethyl, 2,2-difluoro-3-phenylpropyl, 2,2-dimethyl-3-phenylpropyl, 1-benzylcyclopropylmethyl, -X⁵S(O)₂R¹³ and -X⁵S(O)₂R¹⁴, 15 wherein R¹³ is alkyl and R¹⁴ is phenyl which phenyl is unsubstituted or substituted; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates of such compounds and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof. 20

13. A compound of Claim 12 in which:

X³ is 1*H*-benzoimidazol-2-ylcarbonyl, pyrimidin-2-ylcarbonyl, benzooxazol-2-ylcarbonyl, benzothiazol-2-ylcarbonyl, pyridazin-3-ylcarbonyl, 3-phenyl-[1,2,4]oxadiazol-5-ylcarbonyl or 3-ethyl-[1,2,4]oxadiazol-5-ylcarbonyl, 2-oxo-2-pyrrolidin-1-yl-acetyl, 2-morpholin-4-yl-2-oxo-acetyl, 2-oxo-2-piperazin-1-yl-acetyl, 2-(4-methanesulfonyl-piperazin-1-yl)-2-oxo-acetyl, 2-(1,1-dioxo-1□⁶-thiomorpholin-4-yl)-2-oxo-acetyl, dimethylaminooxalyl, tetrahydro-pyran-4-ylaminooxalyl, 2-morpholin-4-yl-ethylaminooxalyl, cyclopentyl-ethyl-aminooxalyl, pyridin-3-ylaminooxalyl, phenylaminooxalyl or 1-benzoyl-piperidin-4-ylaminooxalyl;

X² is selected from -OH, dimethylcarbamoyloxy, morpholin-4-ylcarbonyloxy, piperidin-1-yl-carbonyloxy, pyrrolidin-1-yl-carbonyloxy, pyrimidin-2-ylamino, tetrahydro-pyran-4-ylamino, 1-methyl-piperidin-4-ylamino, N-(2-methoxyethyl)-N-(tetrahydro-

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pyran-4-yl)amino, isopropylamino and cyclohexylamino;

 R^3 is cyclohexylethyl, cyclohexylmethyl, *tert*-butylmethyl, 1-methylcyclohexylmethyl, 1-methylcyclopentylmethyl, 2,2-difluoro-3-phenylpropyl, 2,2-dimethyl-3-phenylpropyl, 1-benzylcyclopropylmethyl, $-X^5S(O)_2R^{13}$ or $-X^5S(O)_2R^{14}$, wherein R^{13} is alkyl and R^{14} is phenyl which phenyl is unsubstituted or substituted; and the pharmaceutically acceptable salts and solvates of such compounds and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers thereof.

14. A compound of Claim 1 selected from the group consisting of:

- 10 (R)-N-cyanomethyl-2-hydroxy-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-(1-cyano-1-thiophen-2-yl-methyl)-2-hydroxy-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-(1-cyano-1-thiophen-2-yl-methyl)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
 - (R)-N-cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
 - morpholine-4-carboxylic acid (R)-1-(cyanomethyl-carbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
 - morpholine-4-carboxylic acid (R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
- 20 (R)-(2-methoxy-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-phenylmethanesulfonylethyl ester;
 - (S)-diethyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-pyrrolidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-morpholine-4-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- 25 (S)-4-Ethyl-piperazine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-2-hydroxymethyl-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-(2,2,2-Trifluoro-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-(2-hydroxyethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester; (Tetrahydrofuran-2-ylmethyl)-carbamic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;

- (S)-Azetidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- (S)-cyclopropyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- (S)-piperidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- (S)-(2-methoxy-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- 5 (R)-3-hydroxy-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;
 - (S)-3-hydroxy-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;
 - (S)-morpholine-4-carboxylic acid 1-(cyanomethyl-carbamoyl)-3-cyclohexyl-propyl ester;
- morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-
 - propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
 - morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-
- propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
 - $pyrrolidine-1-carboxylic\ acid\ (\textit{R})-1-[(\textit{S})-1-(1-benzooxazol-2-yl-methanoyl)-$
 - propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - $\label{lem:carbamic} \mbox{ acid } (R)\mbox{-}1\mbox{-}[(S)\mbox{-}1\mbox{-}(1\mbox{-}benzooxazol\mbox{-}2\mbox{-}yl\mbox{-}methanoyl)\mbox{-}propylcarbamoyl]\mbox{-}2\mbox{-}$
 - phenylmethanesulfonyl-ethyl ester;
- 20 morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzylcarbamoyl-methanoyl)
 - propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - morpholine-4-carboxylic acid (S)-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-
 - propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - morpholine-4-carboxylic acid (S)-1-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-carbonyl)-
- 25 propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - (S)-2-{(R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-
 - propanoylamino}-N-methoxy-N-methyl-butyramide;
 - (R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-*N*-((S)-1-formyl-propyl)-2-hydroxy-propionamide;
- 30 (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-hydroxy-3-phenyl-methanesulfonyl-propionamide;
 - (S)-3-{3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-propanoylamino}-2-oxopentanoic acid benzylamide;

- *N*-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-propionamide;
- *N*-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-3-phenyl-propyl]-3-*p*-tolylmethanesulfonyl-propionamide;
- 5 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-(1-ethyl-2,3-dioxo-3-pyrrolidin-1-yl-propi)-propionamide;
 - 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-(1-ethyl-3-morpholin-4-yl-2,3-dioxo-propyl)-propionamide;
 - 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-(1-ethyl-2,3-dioxo-3-piperazin-1-yl-propyl)-propionamide;
 - 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-[3-(1,1-dioxo-1l6-thiomorpholin-4-yl)-1-ethyl-2,3-dioxo-propyl]-propionamide;
 - 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-[1-ethyl-3-(4-methyl-sulfonyl-piperazin-1-yl)-2,3-dioxo-propyl]-propionamide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid dimethylamide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid cyclopentyl-ethyl-amide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid phenylamide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid pyridin-3-ylamide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (tetrahydro-pyran-4-yl)-amide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (1-benzoyl-piperidin-4-yl)-amide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (2-morpholin-4-yl-ethyl)-amide;
- 30 phenylmethanesulfonyl-propionamide;
 - N-[1-(benzooxazole-2-carbonyl)-propyl]-3-phenylmethanesulfonyl-2-(pyrimidin-2-ylamino)-propionamide.

- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-(5-nitro-thiazol-2-ylamino)-3-phenylmethanesulfonyl-propionamide;
- (2S) (4,4-difluoro-2-hydroxy-5-phenyl-pentanoic acid (1(S)-cyano-3-phenyl-propyl)-amide;
- N-(1(S)-cyano-3-phenyl-propyl)-2-(S)-(2-morpholin-4-yl-2-oxo-ethoxy)-4-phenyl-
- 5 butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2-(S)-fluoro-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2,2-difluoro-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2-(S)-hydroxy-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2-(R)-hydroxy-4-phenyl-butyramide;
- N-(1-(S)-cyano-3-phenyl-propyl)-2-(R)-methoxy-4-phenyl-butyramide;
 - 2,2-difluoro-5-phenyl-pentanoic acid (1-cyano-cyclopropyl)-amide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-4-phenyl-butyramide;
 - 2,2-difluoro-5-phenyl-pentanoic acid ((S)-1-cyano-3-phenyl-propyl)-amide;
 - N-(4-cyano-1-ethyl-piperidin-4-yl)-3-cyclohexyl-propionamide;
- N-(4-cyano-1-ethyl-piperidin-4-yl)-3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionamide;
 - (S)-tert-butyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (R)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-(2-difluoromethoxy-phenylmethanesulfonyl)-ethyl ester;
- 20 (S)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (R)-morpholine-4-carboxylic acid 1-(1-cyano-cyclopropylcarbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
 - (R)-morpholine-4-carboxylic acid 1-(4-cyano-tetrahydro-pyran-4-ylcarbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
- 3-cyclohexyl-2-hydroxy-N-[1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propyl]-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- 30 (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-

propionamide;

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- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(1-methyl-piperidin-4-ylamino)-3-
- 5 phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(bis-thiophen-2-ylmethyl-amino)-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
- (S)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(tetrahydro-pyran-4-ylamino)-3-thiophen-2-yl-propionamide;
 - (S)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-isopropylamino-3-thiophen-2-yl-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
- 20 (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-[(2-methoxy-ethyl)-(tetrahydro-pyran-4-yl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-cyclohexylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-propionamide;
 - (1S)-N-[1-(benzooxazole-2-carbonyl)-butyl]-2-(S)-fluoro-4-phenyl-butyramide;
 2,2-difluoro-5-phenyl-pentanoic acid [(S)-1-(benzoxazole-2-carbonyl)-butyl]-amide;
 morpholine-4-carboxylic acid (S)-1-[(S)-1-(benzooxazole-2-carbonyl)-propylcarbamoyl]-2-
- morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propylcarbamoyl]-ethyl ester;
 morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2
 - carbonyl)-propylcarbamoyl]-ethyl ester;

cyclohexyl-ethyl ester;

- morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(5-phenyl-[1,3,4]oxadiazole-2-carbonyl)-propylcarbamoyl]-ethyl ester;
- morpholine-4-carboxylic acid (S)-1-[(S)-1-(benzooxazole-2-carbonyl)-propylcarbamoyl]-3-cyclohexyl-propyl ester;
- 4-[4,4-dimethyl-2-(morpholine-4-carbonyloxy)-pentanoylamino]-3-oxo-azepane-1-carboxylic acid benzyl ester;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-cyclopropylmethanesulfonyl-2-(tetrahydropyran-4-ylamino)-propionamide;
 - (R)-N-[1-(benzoxazole-2-carbonyl)-butyl]-2-cyclohexylamino-3-
- 10 cyclopropylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzoxazole-2-carbonyl)-butyl]-2-cycloheptylamino-3-cyclopropylmethanesulfonyl-propionamide;
 - (R)-3-phenylmethanesulfonyl-N-[(S)-3-phenyl-1-(thiazole-2-carbonyl)-propyl]-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-3-phenyl-propyl]-3-cyclopropylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-3-cyclopropylmethanesulfonyl-N-[1-(5-ethyl-1,2,4-oxadiazole-3-carbonyl)-propyl]-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-3-phenylmethanesulfonyl-N-[1-(3-phenyl-1,2,4-oxadiazole-5-carbonyl)-propyl]-2-
- 20 (tetrahydro-pyran-4-ylamino)-propionamide;

- (R)-N-[1-(3-cyclopropyl-1,2,4-oxadiazole-5-carbonyl)-propyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- {(R)-1-[1-(benzothiazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
- 25 {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(S)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-thiophen-2-yl-ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[1-(benzothiazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;

- {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
- (R)-1-{1-[hydroxy-(3-phenyl-1,2,4-oxadiazol-5-yl)-methyl]-propylcarbamoyl}-2-phenylmethanesulfonyl-ethyl)-carbamic acid tert-butyl ester;
- 5 ((R)-2-cyclopropylmethanesulfonyl-1-{(S)-1-[(5-ethyl-1,2,4-oxadiazol-3-yl)-hydroxy-methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
 - {(R)-1-[1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - $\{(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-3-phenyl-propylcarbamoyl]-2-phenyl-phen$
- cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(hydroxy-thiazol-2-yl-methyl)-3-phenyl-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
- (R)-1-{1-[hydroxy-(3-phenyl-1,2,4-oxadiazol-5-yl)-methyl]-propylcarbamoyl}-2-phenylmethanesulfonyl-ethyl)-carbamic acid tert-butyl ester;
 - ((R)-2-cyclopropylmethanesulfonyl-1-{(S)-1-[(5-ethyl-1,2,4-oxadiazol-3-yl)-hydroxy-methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
- {(R)-1-[1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonyl-20 ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-3-phenyl-propylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(hydroxy-thiazol-2-yl-methyl)-3-phenyl-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
- 25 (R)-2-phenylmethanesulfonyl-1-{(S)-1-[(3-cyclopropyl-1,2,4-oxadiazol-5-yl)-hydroxy-methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
 - (R)-N-[1-(Benzoxazole-2-carbonyl)-butyl]-2-[cyclopropylmethyl-(tetrahydro-pyran-4-ylmethyl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-dibenzylamino-3-
- 30 phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;

- (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
- (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-propionamide;
- 5 (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(1-methyl-piperidin-4-ylamino)-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(bis-thiophen-2-ylmethyl-amino)-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
 - (S)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(tetrahydro-pyran-4-ylamino)-3-thiophen-2-yl-propionamide;
- S)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-thiophen-2-yl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydropyran-4-ylamino)-propionamide;
 - R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- 25 (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-[(2-methoxy-ethyl)-(tetrahydro-pyran-4-yl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-cyclohexylamino-3-phenylmethanesulfonyl-propionamide;
- 30 phenylmethanesulfonyl-propionamide;
 - N-cyanomethyl-3-cyclohexyl-propionamide;
 - $\it N$ -cyanomethyl-3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionamide;
 - 3-(3-cyclohexyl-propionylamino)-2-oxo-5-phenyl-pentanoic acid thiazol-2-ylamide;

- 3-cyclohexyl-N-(1-formyl-3-phenyl-propyl)-propionamide;
- 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-carbonyl)-propyl]-propionamide;
- N-[(S)-1-(benzooxazole-2-carbonyl)-propyl]-2-(2-cyano-phenylamino)-3-cyclohexyl-propionamide;
- N-Cyanomethyl-3-cyclohexyl-2-(4-methoxy-phenoxy)-propionamide;
- 2-benzyloxy-N-cyanomethyl-3-cyclohexyl-propionamide;
- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-benzyloxy-3-phenylmethanesulfonyl-propionamide;
- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-methoxymethoxy-3-phenylmethanesulfonyl-propionamide;
 - (S)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-hydroxy-3-phenyl-propionamide;
 - (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-phenylmethanesulfonyl-2-triisopropylsilanyloxy-propionamide;
- (*R*)-*N*-[(*S*)-1-(1-benzothiazol-2-yl-methanoyl)-propyl]-2-hydroxy-3-phenylmethanesulfonyl-propionamide;
 - (*R*)-2-hydroxy-3-phenylmethanesulfonyl-*N*-[(S)-1-(1-pyridazin-3-yl-methanoyl)-butyl]-propionamide;
 - (S)-3-((R)-2-hydroxy-3-phenylmethanesulfonyl-propanoylamino)-2-oxo-pentanoic acid benzylamide;
 - (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
 - (R)-N-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
- 25 (2R,5S)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-morpholin-3-one; and their corresponding N-oxides, and their prodrugs, and their protected derivatives, individual isomers and mixtures of isomers thereof; and the pharmaceutically acceptable salts and solvates (e.g. hydrates) of such compounds and their N-oxides and their prodrugs, and their protected derivatives, individual isomers and mixtures of isomers thereof.
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- 15. A compound of claim 14 selected from the group consisting of:
- $(R)-N\hbox{-cyanomethyl-}2-\hbox{hydroxy-}3-\hbox{phenylmethane sulfonyl-propionamide};$
- (R)-N-(1-cyano-1-thiophen-2-yl-methyl)-2-hydroxy-3-phenylmethanesulfonyl-propionamide;

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- (R)-N-(1-cyano-1-thiophen-2-yl-methyl)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
- (*R*)-*N*-cyanomethyl-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
- morpholine-4-carboxylic acid (R)-1-(cyanomethyl-carbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
 - morpholine-4-carboxylic acid (R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
 - (R)-(2-methoxy-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-phenylmethanesulfonylethyl ester;
 - (S)-diethyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-pyrrolidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-morpholine-4-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-4-Ethyl-piperazine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-2-hydroxymethyl-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-(2,2,2-Trifluoro-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- (S)-(2-hydroxyethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester; (Tetrahydrofuran-2-ylmethyl)-carbamic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;
 - (S)-Azetidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-cyclopropyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- 25 (S)-piperidine-1-carboxylic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (S)-(2-methoxy-ethyl)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (R)-3-hydroxy-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;
 - (S)-3-hydroxy-pyrrolidine-1-carboxylic acid (S)-1-(cyanomethyl-carbamoyl)-2-cyclohexylethyl ester;
 - (S)-morpholine-4-carboxylic acid 1-(cyanomethyl-carbamoyl)-3-cyclohexyl-propyl ester; morpholine-4-carboxylic acid (R)-1-(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;

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morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-
                  propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
                  morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-
                  propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester;
                  pyrrolidine-1-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-
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                  propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
                  dimethyl-carbamic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-
                  phenylmethanesulfonyl-ethyl ester;
                  morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzylcarbamoyl-methanoyl)-
                  propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
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                  morpholine-4-carboxylic acid (S)-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-
                  propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
                  morpholine-4-carboxylic acid (S)-1-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-carbonyl)-
                  propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
                  (S)-2-{(R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-
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                  propanoylamino}-N-methoxy-N-methyl-butyramide;
                   (R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl]-N-((S)-1-formyl-propyl)-2-hydroxy-phenylmethanesulfonyl-phenylmethanesulfonyl-phenylmethanesul
                  propionamide;
                   (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-hydroxy-3-phenyl-methanesulfonyl-
                  propionamide;
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                   (S)-3-{3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-propanoylamino}-2-oxo-
                   pentanoic acid benzylamide;
                   N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-diffuoro-methoxy)-propyl]-3-[2-(1,1-diffuo
                   phenylmethanesulfonyl]-propionamide;
                   N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-3-phenyl-propyl]-3-p-tolylmethanesulfonyl-
25
                   propionamide;
                   3-(2-difluoromethoxy-phenylmethanesulfonyl)-N-(1-ethyl-2,3-dioxo-3-pyrrolidin-1-yl-
                   propyl)-propionamide;
                   3-(2-difluoromethoxy-phenylmethanesulfonyl)-N-(1-ethyl-3-morpholin-4-yl-2,3-dioxo-
                   propyl)-propionamide;
30
                   3-(2-difluoromethoxy-phenylmethanesulfonyl)-N-(1-ethyl-2,3-dioxo-3-piperazin-1-yl-propyl)-
                   propionamide;
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3-(2-difluoromethoxy-phenylmethanesulfonyl)-N-[3-(1,1-dioxo-116-thiomorpholin-4-yl)-1-

- ethyl-2,3-dioxo-propyl]-propionamide;
- 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-[1-ethyl-3-(4-methyl-sulfonyl-piperazin-1-yl)-2,3-dioxo-propyl]-propionamide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid dimethylamide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid cyclopentyl-ethyl-amide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid phenylamide;
- 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid pyridin-3-ylamide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (tetrahydro-pyran-4-yl)-amide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (1-benzoyl-piperidin-4-yl)-amide;
 - 3-[3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionylamino]-2-oxo-pentanoic acid (2-morpholin-4-yl-ethyl)-amide;
 - (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-(2-nitro-phenylamino)-3-phenylmethanesulfonyl-propionamide;
- 20 *N*-[1-(benzooxazole-2-carbonyl)-propyl]-3-phenylmethanesulfonyl-2-(pyrimidin-2-ylamino)-propionamide.
 - (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-(5-nitro-thiazol-2-ylamino)-3-phenylmethanesulfonyl-propionamide;
 - (2S) (4,4-difluoro-2-hydroxy-5-phenyl-pentanoic acid (1(S)-cyano-3-phenyl-propyl)-amide;
- N-(1(S)-cyano-3-phenyl-propyl)-2-(S)-(2-morpholin-4-yl-2-oxo-ethoxy)-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2-(S)-fluoro-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2,2-difluoro-4-phenyl-butyramide;
 - N-(1-(S)-cyano-3-phenyl-propyl)-2-(S)-hydroxy-4-phenyl-butyramide;

- N-(1-(S)-cyano-3-phenyl-propyl)-2-(R)-hydroxy-4-phenyl-butyramide;
- N-(1-(S)-cyano-3-phenyl-propyl)-2-(R)-methoxy-4-phenyl-butyramide;
- 2,2-difluoro-5-phenyl-pentanoic acid (1-cyano-cyclopropyl)-amide;
- N-(1-(S)-cyano-3-phenyl-propyl)-4-phenyl-butyramide;
- 5 2,2-difluoro-5-phenyl-pentanoic acid ((S)-1-cyano-3-phenyl-propyl)-amide;
 - N-(4-cyano-1-ethyl-piperidin-4-yl)-3-cyclohexyl-propionamide;
 - N-(4-cyano-1-ethyl-piperidin-4-yl)-3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionamide;
 - (S)-tert-butyl-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
- (R)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-(2-difluoromethoxy-phenylmethanesulfonyl)-ethyl ester;
 - (S)-carbamic acid 1-(cyanomethyl-carbamoyl)-2-cyclohexyl-ethyl ester;
 - (R)-morpholine-4-carboxylic acid 1-(1-cyano-cyclopropylcarbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
- (R)-morpholine-4-carboxylic acid 1-(4-cyano-tetrahydro-pyran-4-ylcarbamoyl)-2-phenylmethanesulfonyl-ethyl ester;
 - 3-cyclohexyl-2-hydroxy-N-[1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propyl]-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
- 20 (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-
- 25 propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(1-methyl-piperidin-4-ylamino)-3-phenylmethanesulfonyl-propionamide;
- 30 (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(bis-thiophen-2-ylmethyl-amino)-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-

propionamide;

- (S)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-(tetrahydro-pyran-4-ylamino)-3-thiophen-2-yl-propionamide;
- (S)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-isopropylamino-3-thiophen-2-yl-normalism of the property of t
- 5 propionamide;

- (R)-N-[1-(benzothiazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-[(2-methoxy-ethyl)-(tetrahydro-pyran-4-yl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-cyclohexylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-propionamide;
 - (1S)-N-[1-(benzooxazole-2-carbonyl)-butyl]-2-(S)-fluoro-4-phenyl-butyramide;
 - 2,2-difluoro-5-phenyl-pentanoic acid [(S)-1-(benzoxazole-2-carbonyl)-butyl]-amide;
- morpholine-4-carboxylic acid (S)-1-[(S)-1-(benzooxazole-2-carbonyl)-propylcarbamoyl]-2-cyclohexyl-ethyl ester;
 - morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propylcarbamoyl]-ethyl ester;
 - morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-
- 25 carbonyl)-propylcarbamoyl]-ethyl ester;
 - morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(5-phenyl-[1,3,4]oxadiazole-2-carbonyl)-propylcarbamoyl]-ethyl ester;
 - morpholine-4-carboxylic acid (S)-1-[(S)-1-(benzooxazole-2-carbonyl)-propylcarbamoyl]-3-cyclohexyl-propyl ester;
- 4-[4,4-dimethyl-2-(morpholine-4-carbonyloxy)-pentanoylamino]-3-oxo-azepane-1-carboxylic acid benzyl ester;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-cyclopropylmethanesulfonyl-2-(tetrahydropyran-4-ylamino)-propionamide;

- (R)-N-[1-(benzoxazole-2-carbonyl)-butyl]-2-cyclohexylamino-3-cyclopropylmethanesulfonyl-propionamide;
- (R)-N-[1-(benzoxazole-2-carbonyl)-butyl]-2-cycloheptylamino-3-cyclopropylmethanesulfonyl-propionamide;
- 5 (R)-3-phenylmethanesulfonyl-N-[(S)-3-phenyl-1-(thiazole-2-carbonyl)-propyl]-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-3-phenyl-propyl]-3-cyclopropylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-3-cyclopropylmethanesulfonyl-N-[1-(5-ethyl-1,2,4-oxadiazole-3-carbonyl)-propyl]-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-3-phenylmethanesulfonyl-N-[1-(3-phenyl-1,2,4-oxadiazole-5-carbonyl)-propyl]-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[1-(3-cyclopropyl-1,2,4-oxadiazole-5-carbonyl)-propyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- 15 {(R)-1-[1-(benzothiazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(S)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-thiophen-2-yl-ethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[1-(benzothiazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
- 25 {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - (R)-1-{1-[hydroxy-(3-phenyl-1,2,4-oxadiazol-5-yl)-methyl]-propylcarbamoyl}-2-phenylmethanesulfonyl-ethyl)-carbamic acid tert-butyl ester;
 - $((R)-2-cyclopropylmethanesulfonyl-1-\{(S)-1-[(5-ethyl-1,2,4-oxadiazol-3-yl)-hydroxy-1,2,4-oxadiazol-3-yl)-hydroxy-1,2,4-oxadiazol-3-yl,3,4-oxadiazol-3-yl,3,4-oxadia$
- methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
 - {(R)-1-[1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;

- $\{(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-3-phenyl-propylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl\}-carbamic acid tert-butyl ester;$
- {(R)-1-[(S)-1-(hydroxy-thiazol-2-yl-methyl)-3-phenyl-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
- 5 {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - $(R)-1-\{1-[hydroxy-(3-phenyl-1,2,4-oxadiazol-5-yl)-methyl]-propylcarbamoyl\}-2-phenylmethanesulfonyl-ethyl)-carbamic acid tert-butyl ester;$
- methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
 - {(R)-1-[1-(benzoxazol-2-yl-hydroxy-methyl)-butylcarbamoyl]-2-phenylmethanesulfonylethyl}-carbamic acid tert-butyl ester;
 - {(R)-1-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-3-phenyl-propylcarbamoyl]-2-cyclopropylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
- 15 {(R)-1-[(S)-1-(hydroxy-thiazol-2-yl-methyl)-3-phenyl-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl}-carbamic acid tert-butyl ester;
 - (R)-2-phenylmethanesulfonyl-1-{(S)-1-[(3-cyclopropyl-1,2,4-oxadiazol-5-yl)-hydroxy-methyl]-propylcarbamoyl}-ethyl)-carbamic acid tert-butyl ester;
 - (R)-N-[1-(Benzoxazole-2-carbonyl)-butyl]-2-[cyclopropylmethyl-(tetrahydro-pyran-4-ylmethyl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- 25 (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-phenylmethanesulfonyl
- 30 (tetrahydro-pyran-4-ylamino)-propionamide;

(R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(1-methyl-piperidin-4-ylamino)-3-phenylmethanesulfonyl-propionamide;

- (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(bis-thiophen-2-ylmethyl-amino)-3-phenylmethanesulfonyl-propionamide;
- (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-dibenzylamino-3-phenylmethanesulfonyl-propionamide;
- 5 (S)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-(tetrahydro-pyran-4-ylamino)-3-thiophen-2-yl-propionamide;
 - S)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-thiophen-2-yl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-isopropylamino-3-
- 10 phenylmethanesulfonyl-propionamide;
 - (R)-N-[1-(benzothiazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydropyran-4-ylamino)-propionamide;
 - R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-[(2-methoxy-ethyl)-(tetrahydro-pyran-4-yl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-cyclohexylamino-3-
- 20 phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazol-2-yl-hydroxy-methyl)-butyl]-2-dimethylamino-3-phenylmethanesulfonyl-propionamide;
 - N-cyanomethyl-3-cyclohexyl-propionamide;
 - N-cyanomethyl-3-(2-difluoromethoxy-phenylmethanesulfonyl)-propionamide;
- 3-(3-cyclohexyl-propionylamino)-2-oxo-5-phenyl-pentanoic acid thiazol-2-ylamide;
 - 3-cyclohexyl-*N*-(1-formyl-3-phenyl-propyl)-propionamide;
 - 3-(2-difluoromethoxy-phenylmethanesulfonyl)-*N*-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-carbonyl)-propyl]-propionamide;
 - N-[(S)-1-(benzooxazole-2-carbonyl)-propyl]-2-(2-cyano-phenylamino)-3-cyclohexyl-propyllograms and the propyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyllograms. The propyllograms are also benzooxazole-2-carbonyllograms are also benzooxazole-2-carbonyl
- 30 propionamide;
 - N-Cyanomethyl-3-cyclohexyl-2-(4-methoxy-phenoxy)-propionamide;
 - 2-benzyloxy-N-cyanomethyl-3-cyclohexyl-propionamide;

- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-benzyloxy-3-phenylmethanesulfonyl-propionamide;
- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-methoxymethoxy-3-phenylmethanesulfonyl-propionamide;
- (S)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-hydroxy-3-phenyl-propionamide; (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-phenylmethanesulfonyl-2-triisopropylsilanyloxy-propionamide;
 - (R)-N-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-propyl]-2-hydroxy-3-phenylmethanesulfonyl-propionamide;
- (*R*)-2-hydroxy-3-phenylmethanesulfonyl-*N*-[(S)-1-(1-pyridazin-3-yl-methanoyl)-butyl]-propionamide;
 - (S)-3-((R)-2-hydroxy-3-phenylmethanesulfonyl-propanoylamino)-2-oxo-pentanoic acid benzylamide;
 - (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide;
 - $(R)-N-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-propyl]-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-2-hydroxy-propionamide; and \\ (2R,5S)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethanesulfonylmethyl]-6-ethoxy-5-ethyl-phenylmethyl]-6-ethoxy-5-ethyl-phenylmethyl]-6-ethoxy-5-ethyl-phenylmethyl]-6-ethoxy-5-ethyl-phenylmethyl]-6-ethoxy-5-ethyl-phenylmethyl]-6-ethoxy-5-ethyl-phenylmethyll]-6-ethoxy-5-ethyllphenylmethyll]-6-ethoxy-5-ethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllphenylmethyllph$

morpholin-3-one.

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- 16. A compound of claim 15 selected from the group consisting of: morpholine-4-carboxylic acid (R)-1-(cyanomethyl-carbamoyl)-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester, (Compound 31);
- 25 morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester, (Compound 11);
 - morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester, (Compound 14);
 - morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzothiazol-2-yl-methanoyl)-propylcarbamoyl]-2-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-ethyl ester, (Compound 15);
- pyrrolidine-1-carboxylic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester, (Compound 19);

- dimethyl-carbamic acid (R)-1-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester, (Compound 20);
- morpholine-4-carboxylic acid (R)-1-[(S)-1-(1-benzylcarbamoyl-methanoyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester, (Compound 25);
 - morpholine-4-carboxylic acid (S)-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
- morpholine-4-carboxylic acid (S)-1-[(S)-1-(5-ethyl-[1,3,4]oxadiazole-2-carbonyl)-propylcarbamoyl]-2-phenylmethanesulfonyl-ethyl ester;
 - (R)-3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-*N*-((S)-1-formyl-propyl)-2-hydroxy-propionamide;
- (R)-N-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-hydroxy-3-phenyl-methanesulfonyl-propionamide;
- (S)-3-{3-[2-(1,1-difluoro-methoxy)-phenylmethanesulfonyl]-propanoylamino}-2-oxo-pentanoic acid benzylamide;
 - (R)-*N*-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-propyl]-2-(2-nitro-phenylamino)-3-phenylmethanesulfonyl-propionamide;
- 25 (R)-*N*-[(S)-1-(1-benzooxazol-2-yl-methanoyl)-butyl]-2-(5-nitro-thiazol-2-ylamino)-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-3-phenylmethanesulfonyl-2-(tetrahydro-pyran-4-ylamino)-propionamide;
- 30 (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-isopropylamino-3-phenylmethanesulfonyl propionamide;
- (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-[(2-methoxy-ethyl)-(tetrahydro-pyran-4-yl)-amino]-3-phenylmethanesulfonyl-propionamide;
 - (R)-N-[(S)-1-(benzoxazole-2-carbonyl)-butyl]-2-cyclohexylamino-3-phenylmethanesulfonyl-propionamide;
 - morpholine-4-carboxylic acid (S)-2-cyclohexyl-1-[(S)-1-(oxazolo[4,5-b]pyridine-2-carbonyl)-propylcarbamoyl]-ethyl ester;
 - (S)-3-((R)-2-hydroxy-3-phenylmethanesulfonyl-propanoylamino)-2-oxo-pentanoic acid benzylamide;
 - $(R)-N-[(S)-1-(1-{\tt benzooxazol-2-yl-methanoyl})-{\tt propyl}]-3-[2-(1,1-{\tt difluoro-methoxy})-1-(1-{\tt benzooxazol-2-yl-methanoyl})-1-(1-{\tt benzooxazol-2-yl-met$
- 45 phenylmethanesulfonyl]-2-hydroxy-propionamide.

- 17. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 in combination with a pharmaceutically acceptable excipient.
- 18. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 2 in combination with a pharmaceutically acceptable excipient.
 - 19. A method for treating a disease in an animal in which inhibition of Cathepsin S can prevent, inhibit or ameliorate the pathology and/or symptomology of the disease, which method comprises administering to the animal a therapeutically effective amount of compound of Claim 1 or Claim 2.
 - 20. The use of a compound of Claim 1 or 2 in the manufacture of a medicament for treating a disease in an animal in which Cathepsin S activity contributes to the pathology and/or symptomology of the disease.